#### **DESCRIPTION**

# METHODS AND COMPOSITIONS FOR INCREASING THE EFFICACY OF BIOLOGICALLY-ACTIVE INGREDIENTS

# **BACKGROUND OF THE INVENTION**

## 1. Field of the Invention

The present invention relates generally to the fields of cellular biology. More particularly, it concerns methods and compositions for the modulation of cellular sensitivity to biologically-active agents.

# 2. Description of Related Art

#### 10 Transport Processes

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Cells can use a phenomenon called symport to move soluble products across biological membranes. Symport is a form of coupled movement of two solutes in the same direction across a membrane by a single carrier. Examples of proton and sodium-linked symport systems are found in nearly all living systems. The energetics of the transport event depend on the relative size and electrical nature of the gradient of solutes.

Transport processes have been classified on the basis of their energy-coupling mechanisms. Currently there are four classifications: (1) Primary Active Transport which uses either a chemical, light or electrical energy source, (2) Group Translocation which uses chemical energy sources, (3) Secondary Active Transport which uses either a sodium or proton electrochemical gradient energy source, and (4) Facilitated Diffusion which does not require an energy source (Meyers, 1997). The present invention is related to transport molecules belonging to the first class of transport processes, primary active transport, and therefore, this type of transport will be discussed in further detail.

Primary active transport refers to a process whereby a "primary" source of energy is used to drive the active accumulation of a solute into or extrusion of a solute from a cell. Transport proteins include P-type ATPases and ABC-type ATPases, as well as V-type and E-type ATPases. These types of transport systems are found in both eukaryotes and prokaryotes. The bacterial ABC-type transporters, which are ATP-driven solute pumps, have eukaryotic counterparts. Additionally, many transmembrane solute transport proteins exhibit a common

structural motif. The proteins in these families consist of units or domains that pass through the membrane six times, each time as an  $\alpha$ -helix. This has led to the suggestion that many transport proteins share a common evolutionary origin, but this is not true of several distinct families of transport proteins.

Numerous structurally distinct bacterial permeases, as well as several homologous eukaryotic transport systems, share a common organization (Meyers, 1997). Two hydrophilic domains or proteins function to couple ATP hydrolysis in the cytoplasm to activate substrate uptake or efflux, and two hydrophobic domains or proteins function as the transmembrane substrate channels. These proteins or protein domains constitute what is referred to as the ABC (ATP-binding cassette) superfamily. Either the two hydrophilic domains or proteins or the two hydrophobic domains or proteins (or both) may exist either as heterodimers or homodimers. If, as in most bacterial systems, each of these constituents is a distinct protein, then either two, three, or four genes will code for them, depending on whether both are homodimers, one is a homodimer and one is a heterodimer, or both are heterodimers, respectively. The best characterized of the eukaryotic proteins included in this family are the multidrug-resistance (MDR) transporter and the cystic fibrosis related chloride ion channel of mammalian cells (cystic fibrosis transmembrane conductance regulator or CFTR) (Meyers, 1997).

#### **Multidrug Resistance**

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Multidrug resistance (MDR) is a general term that refers to the phenotype of cells or microorganisms that exhibit resistance to different, chemically dissimilar, cytotoxic compounds. MDR can develop after sequential or simultaneous exposure to various drugs. MDR can also develop before exposure to many compounds to which a cell or microorganism may be found to be resistant. MDR which develops before exposure is frequently due to a genetic event which causes the altered expression and/or mutation of an ATP-binding cassette (ABC) transporter (Wadkins and Roepe, 1997). This is true for both eukaryotes and prokaryotes.

One prominent member of the ABC family, P-glycoprotein (Pgp; also known as multidrug resistance protein or MDR1), which is a plasma-membrane glycoprotein that confers a multidrug resistance (MDR) phenotype on cells, is of considerable interest because it provides one mechanism of possibly inhibiting resistance in tumor cells to chemotherapeutic agents (Senior *et al.*, 1995). Pgp is a single polypeptide of ~1280 amino acids with the typical ABC transporter structure profile. Studies have shown that over expression of Pgp is responsible for

the ATP-dependent extrusion of a variety of compounds, including chemotherapeutic drugs, from cells (Abraham et al., 1993).

Over one-hundred ABC transporters have been identified in species ranging from Escherichia coli to humans (Higgins, 1995). For example, the bacteria Lactococcus lactis expresses an ABC transporter, LmrA, which mediates antibiotic resistance by extruding amphiphilic compounds from the inner leaflet of the cytoplasmic membrane (Van Veen et al., 1998). Furthermore, over-expression of LmrA can confer MDR in human lung fibroblasts and LmrA has similar molecular and biochemical properties to Pgp. This demonstrates that bacterial LmrA and Pgp are functionally interchangeable. Additionally, the plant Arabidopsis thaliana encodes an ATP transporter, AtPGP-1, which is a putative Pgp homolog (Dudler and Hertig, 1992). Similarly, the yeast Saccharomyces cerevisiae equivalent of Pgp, STS1 (Bissinger and Kucher, 1994) has been cloned and shown to confer multidrug resistance when over-expressed in yeast, as has the yeast Pdr5p (Kolacskowski et al., 1996). Taken together, these results suggest that this type of multidrug resistance efflux pump is conserved from bacteria to humans.

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While various theories of ABC transporter function have become popular, there is still no precise molecular-level description for the mechanism by which over-expression lowers intracellular accumulation of drugs, in particular how Pgp lowers intracellular accumulation of chemotherapeutic drugs. However, it has been shown that Pgp over-expression also changes plasma membrane electrical potential and intracellular pH which could potentially greatly affect the cellular flux of a large number of compounds to which Pgp confers resistance (Wadkins and Roepe, 1997). Also included in the ABC transporter superfamily are the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) and the Sulfonyl Urea Receptor (SUR). CFTR and SUR are expressed in the lung epithelium and the β cells of the pancreas, respectively, as well as in other tissues. CFTR functions as a low conductance ATP and cyclic AMP-dependent C1 channel that also appears to have additional important functions, such as modulation of epithelial NA<sup>+</sup> regulation of outwardly rectified chloride channels (Wadkins and Roepe, 1997).

Mutations in the CFTR gene produce altered CFTR proteins with defects in CFTR function, leading to profound alterations in epithelial salt transport and altered mucous properties in cystic fibrosis patients that result in chronic lung infections associated with the disease. *Id.* SUR is triggered by sulfonyl urea drugs to depolarize pancreatic P cells that leads to Ca<sup>2+</sup> influx, which stimulates fusion of insulin containing vesicles to the plasma membrane. Id. An ATP

transporter hypothesis has been suggested for Pgp, CFTR and SUR which theorizes that these ABC transporters function as ATP transport channels (Abraham et al., 1993; Schweibert, 1995; Al-Awgati, 1995). The ATP channel hypothesis, however, has been viewed with skepticism. This is partly due to the inability to show the same results with preparations including purified and reconstituted CFTR, suggesting that the ATP conductance that was originally observed may have been mediated by another protein, not present in the purified system, that is influenced by CFTR (Wadkins and Roepe). There has been no such negative data reported with respect to the ATP charnel hypothesis for Pgp or SUR, but the controversy over CFTR has raised doubt for Pgp and SUR as well.

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In support of the ATP channel hypothesis (Huang et al., 1992) have suggested that extracellular ATP leads to elevations in pH, and Weiner et al., (1986) have suggested that extracellular ATP may regulate Na/H<sup>+</sup> exchange in Ehrlich ascites tumor cells. It has also been observed that changes in Pgp levels affects pH and plasma membrane electrical potentials which could be connected to recent observations suggesting the involvement of ATP transport in MDR.

Additionally, Abraham *et al.*, (1993) have reported that the addition of extracellular ATP to MDR cell lines confers sensitivity to drugs abolishing MDR. The data for this effect were not presented in the article and no further explanation was given for this phenomenon. Furthermore, there have been no subsequent publications addressing or explaining this effect.

Furthermore, Ujhazy et al., (1996) have shown that ecto-5'-nucleotidase is up-regulated in certain MDR cell lines. Ecto-5'-nucleotidase is the final enzyme in the extracellular pathway for salvage of adenosine from phosphorylated purines (Zimmerman, 1992). The proposed hypothesis for the involvement of ecto-5'-nucleotidase in drug resistance considers its role in the maintenance of intracellular ATP pools through the adenosine salvage pathway (Ujhazy et al., 1996). Ecto-5'-nucleotidase specifically acts in adenosine salvage pathways, converting AMP to adenosine which is more readily taken up by the cell and utilized as a precursor for ATP production. Therefore, ecto-5'-nucleotidase may be acting in certain MDR cell lines as a mechanism by which the cell circumvents the loss of ATP (due to up-regulated transport proteins which possibly form ATP transport channels) by creating higher levels of adenosine from which the cell can produce ATP. Correspondingly, 63% of MDR cell line variants tested expressed ecto-5'- nucleotidase. These observations suggested that a salvage mechanism for extracellular nucleotides may be another way by which certain MDR cells counterbalance their ATP losses

from efflux induced by the over-expression of ABC transporters involved in MMR. Consistent with this hypothesis, inhibitors of ecto-5'-nucleotidase conferred sensitivity to certain drugs in MDR cell lines which over-express the ecto-5'-nucleotidase.

It is also interesting to note that yeast, which do not have an adenosine salvage pathway (Boyum and Guidotti, 1997), do contain a PGP-like gene called STS 1 (Bissinger and Kucher, 1994). Therefore, since the adenosine salvage pathway is unlikely to be involved in yeast multidrug resistance, other mechanisms are likely to exist.

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Recent reports have confirmed the existence of ATP in the extracellular matrix (ECM) of both multicellular organisms and unicellular organisms (Sedaa et al., 1990; Boyum and Guidotti, 1997), respectively. However, no such reports are available which suggest the existence of ATP in the ECM of plants before the present invention. These reports have prompted further investigations of the fate of ATP outside the cell. One of the largest gradients in biological systems is that of ATP. It is a million-fold more concentrated inside the cell than outside. Phosphatases are enzymes with the ability to hydrolyze ATP and to a lesser extent, the beta phosphate of ADP (Plesner, 1995). Extracellular phosphatases are generally referred to as ectophosphatases. A type of ectophosphatase is ecto-pyrase. Given reports that show the existence of extracellular ATP, one observation regarding ectoapyrase is that it hydrolyzes the extracellular ATP. In fact, work in animal systems has shown that apyrases hydrolyze ATP in the ECM as part of the adenosine salvage pathway conjointly with ecto-5' ectonucleotidase (Che, 1992).

What has been lacking in the art are particular methods and compositions that allow modification of cellular ATP gradients to increase the uptake of cytotoxic agents by cells. It would be particularly useful to identify methods and compositions that result in increased uptake by cells of herbicides, antibiotics, fungicides, insecticides, chemotherapeutics and other active ingredients. This may result in increased efficacy in the use of such agents, as well as allow use of lower concentrations of such agents. This may provide cost, health and environmental benefits. This may also allow effective treatment of MDR cells, such as antibiotic-resistant bacteria or chemotherapy-resistant tumor cells.

## **SUMMARY OF THE INVENTION**

In one aspect, the invention provides a cytotoxic composition comprising an ectophosphatase inhibitor and a cytotoxic agent set forth in Table 1. In one embodiment of the invention, the cytotoxic agent is selectively cytotoxic. In other embodiments, the cytotoxic composition may be further defined as a herbicidal composition and the cytotoxic agent a herbicide, may be further defined as an insecticidal composition and the cytotoxic agent an insecticide, may be further defined as a fungicidal composition and the cytotoxic agent a fungicide and/or may be further defined as an antibiotic composition and the cytotoxic agent an antibiotic. In an antibiotic composition, the antibiotic may be from a class selected from the group consisting of Beta-lactam, Semisynthetic penicillin, Clavulanic Acid, Monobactams, Carboxypenems, Aminoglycosides, Glycopeptides, Lincomycins, Macrolides, Polyenes, Rifamycins, Tetracyclines, Semisynthetic, tetracycline and Chloramphenicol. In certain embodiments of the invention, the ectophosphatase inhibitor may be selected from the group consisting of the compounds of formulae I-XX.

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In another aspect, the invention provides a plant growth regulator composition comprising an ectophosphatase inhibitor and a plant growth regulator agent set forth in Table 1. In one embodiment of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulae I-XX.

In yet another aspect, the invention provides a chemotherapeutic composition comprising an ectophosphatase inhibitory compound and a chemotherapeutic agent. In one embodiment of the invention, the chemotherapeutic agent is a chemotherapeutic agent set forth in Table 3. In further embodiments of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulae I-XX.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a plant, comprising contacting said plant with an effective amount of a herbicidal composition provided by the invention. The method may be carried out with potentially any plant, including a monocotyledonous plant or a dicotyledonous plant.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a tumor cell, comprising contacting said tumor cell with an effective amount of a chemotherapeutic composition of the invention. In the method, contacting may comprise

administering the composition to a patient in need thereof, wherein the patient comprises the tumor cell.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a target cell, comprising contacting said cell with a composition formulated therefore. In certain embodiments of the invention, the cell may be a fungal cell, bacterial cell, or insect cell.

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In still yet another aspect, the invention provides a method of increasing the effectiveness of a cytotoxic agent, comprising admixing said cytotoxic agent with an ectophosphatase inhibitor, wherein the cytotoxic agent is selected from the group set forth in Table 1. In certain embodiments of the invention, the cytotoxic agent may be further defined as a herbicide, insecticide, fungicide, and an antibiotic. Examples of antibiotics include those from the following classes: Beta-lactam, Semisynthetic penicillin, Clavulanic Acid, Monobactams, Carboxypenems, Aminoglycosides, Glycopeptides, Lincomycins, Macrolides, Polyenes, Rifamycins, Tetracyclines, Semisynthetic, tetracycline and Chloramphenicol. In one embodiment of the invention, a cytotoxic agent is a chemotherapeutic agent, for example, selected from the group set forth in Table 3.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

The following drawings form part of the present specification and are included to further demonstrate certain aspects of the present invention. The invention may be better understood by reference to one or more of these drawings in combination with the detailed description of specific embodiments presented herein.

- FIGs. 1A-1C Expression of apyrase in pea and in transgenic plants (FIG. 1A) Immunoblot analysis of subcellular fractions from etiolated pea plants. (FIG. 1B) Top, the total phosphate accumulated in the shoots of three independent transgenic plants. Bottom, a corresponding Immunoblot performed on protein from ECM of wild-type and transgenic plants. (FIG. 1C) Assay of phosphatase activity in the ECM fraction of OEl and wild-type.
- FIGs. 2A-C Transport of the products of ATP hydrolysis by transgenic plants overexpressing apyrase and by wild-type plants.

FIGs. 3A-D Conference of resistance to cycloheximide (FIG. 3A, B) and nigencin (FIG. 3C, D) in wild-type and ectophosphatase deficient yeast over-expressing the *Arabidopsis* plant ABC transporter, AtPGP-1.

FIGs. 4A-B-3 Conference of resistance to cycloheximide (FIG. 4A) and cytokinin (FIG. 4B-1-FIG. 4B-3) in *Arabidopsis* plants over-expressing either the ectophosphatase, apyrase, or the ABC transporter, AtPGP-1.

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- FIGs. 5A-B Graph showing the growth turbidity of YMR4 yeast over-expressing the *Arabidopsis* plant ABC transporter AtPGP-1 grown in cycloheximide (FIG. 5A) or nigericin (FIG. 5B).
- 10 FIG. 6 Graph showing germination rate of *Arabidopsis* plants grown in the presence of cycloheximide which over-express either the ectophosphatase, apyrase, or the ABC transporter AtPGP-1.
  - FIG. 7 Graph of steady-state levels of ATP in the extracellular fluid of wildtype yeast cells grown in the presence or absence of glucose and in the presence or absence of over-expression of the *Arabidopsis* plant ABC transporter, AtPGP-1.
  - FIG. 8 Graph showing that over-expression of *Arabidopsis* plant ABC transporter, AtPGP-1, in yeast can double the steady-state levels of ATP in the extracellular fluid.
  - FIG. 9 Graph showing that a yeast mutant, YMR4, that has a deficient ectophosphatase, accumulates ATP in the extracellular fluid and the over-expression of AtPGP-1 increases the accumulation of ATP.
  - FIG. 10 Graph showing results of a pulse-chase experiment in either wildtype yeast cells or a yeast mutant, YMR4, which is deficient in ectophosphatase activity, in the presence and absence of over-expression of *Arabidopsis* plant ABC transporter, AtPGP-1, demonstrating an early differential ATP efflux of cells over-expressing AtPGP-1.
- FIG. 11 Graph of ATP levels on the surface of leaves of *Arabidopsis* plants over-expressing AtPGP-1 (MDR 1).
  - FIG. 12 Effects of phosphatase inhibitor in wild-type and AtPGP-1 (MDRI) overexpressing *Arabidopsis* plants.

FIG. 13 Growth effects of cycloheximide and extracellular ATP on wildtype and MDR1 overexpressing *S. cerevisiae* yeast cells which have either never seen cycloheximide or which have been previously selected in cycloheximide.

FIG. 14 Growth effects of cycloheximide, adenosine and phosphate on wildtype and AtPGP-1 overexpressing S. cerevisiae yeast cells.

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#### **DETAILED DESCRIPTION OF THE INVENTION**

The present invention provides methods and compositions for modulating the sensitivity of cells to cytotoxic compounds and other active agents. In accordance with the invention, such modulation may be carried out by modifying cellular ATP gradients, for example, by contacting a plant, animal, yeast or bacterial cell with an ectophosphatase inhibitor contemporaneously with a cytotoxic agent or other active ingredient, or combinations thereof. As used herein, the term "ectophosphatase inhibitor" refers to a compound that has the ability to specifically inhibit ectophosphatase activity. A "cytotoxic agent" is a compound capable of selectively or non-selectively killing or inhibiting the growth of a cell, including antibiotics, fungicides, herbicides, insecticides and chemotherapeutic agents.

The efficacy of one or more cytotoxic agents may be increased in accordance with the invention by reducing the ATP gradient across biological membranes, which is effectuated through the modulation of an ectophosphatase either alone or together with an ABC transporter molecule. Modulation of resistance to a cytotoxic compound as described herein is useful, for example, in increasing the sensitivity of plants to herbicides; reducing drug resistance in tumor cells for improved chemotherapy applications; and reducing resistance to antibiotics, antifungal agents, insecticides and other cytotoxic agents for the treatment of infections and disease. Provided by the invention are specific combinations of ectophosphatase inhibitors and cytotoxic compounds or other active ingredients that may be used in these applications.

In accordance with certain embodiments of the invention, the manipulation of extracellular ATP levels to alter ATP gradient across biological membranes in cells by inhibition of ectophosphatases results in diminishing or removing the ATP gradient that may otherwise prevent access of cytotoxic agents to the cell. In some instances, access may be minimized by

efflux of cytotoxic agents from the cell. This efflux is likely effectuated through the "piggy-back" efflux of drug molecules with ATP, a phenomenon known as symport.

In accordance with the invention, inhibitors of ectophosphatases may be administered contemporaneously with cytotoxic agents, including herbicides, antibiotics, fungicides, insecticides and other active ingredients, as well as chemotherapeutics. By "contemporaneously," it is meant within sufficient temporal proximity that the increased sensitivity of a cell to the relevant cytotoxic agent may be achieved in combination with contacting the cell with the agent. In certain embodiments of the invention, ectophosphatase inhibitors are used as adjuvants with cytotoxic agents, that is, are admixed with one or more cytotoxic agents or other active ingredients.

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It is therefore an object of the present invention to provide inhibitors of ectophosphatases in physiological compositions for modulating cell growth and/or survival, including, but not limited to, MDR cells. Such physiological compositions may comprise a small molecule capable of inhibiting an ectophosphatase and a physiologically acceptable carrier or diluent together with a therapeutic agent. As used herein, the term "physiologically acceptable carrier or diluent" means any and all solvents, dispersion media, antibacterial and antifungal agents, microcapsules, liposomes, cationic lipid carriers, isotonic and absorption delaying agents and the like which are not incompatible with the ectophosphatase inhibitors. The use of such media and agents for physiologically active substances is well known in the art. Supplementary active ingredients may also be incorporated into the compositions.

In certain embodiments, only an endogenous ectophosphatase is inhibited. In particular embodiments of the invention, the ectophosphatase is human apyrase. In other embodiments, the ectophosphatase is a plant, bacterial, fungal or yeast ectophosphatase.

The inhibition of ectophosphatases is useful in increasing sensitivity to cytotoxic agents and/or reduction of drug resistance in cells. In one embodiment of the invention, the inhibition of ectophosphatases results in a loss of resistance to a cytotoxic agent. In another embodiment of the invention, administration of such inhibitory molecules is in conjunction with the administration of chemotherapeutic agents in tumor cells.

Using high throughput screens, ectophosphatase inhibitors may be isolated, for example, by screening a small molecule library (e.g. a combinatorial library) for inhibitory activity to

ectophosphatase (e.g. apyrase activity). Once ectophosphatase inhibitory molecules are isolated from such a screen, the inhibitors may be further tested for their ability to specifically inhibit the ATPase activity of the ectophosphatase.

Exemplary ectophosphatase inhibitory molecules for use with the current invention are preferably chemically stable and physiologically active including, but not limited to, the compounds of formulae I-XX.

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Formula IV

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Formula VII

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Formula IX

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Formula XII

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Preliminary pharmacophore studies revealed that the small molecules represented by Formulae I through XX fall into five classes of compounds (sulfanamides, guanidines,

aminothiazoles, thioketones and benzamides). Most of these chemical classes are found in other physiologically-active compounds, including those having pharmaceutical and therapeutic use. For example, sulfanimides are widely used as antibiotics. Additionally, studies for the isolation of small molecules capable of reversing MDR have described molecules belonging to two of the classes of molecules of the present invention (Medina et al. 1998; Dhamant et al., 1992). The molecules described by Medina et al. have been shown to affect MDR and the mode of action of the molecules is believed to involve tubulin interactions. The thiazine derivatives described by Dhamant et al. reverse the resistance in tumor cells to vincristine.

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The ectophosphatase inhibitory molecules are useful in increasing the activities of various agents by increasing the availability of the agents to cells. In certain embodiments of the invention, this may comprise reversing multidrug resistance (MDR) in an organism. In other embodiments, this may be achieved with a cell that does not exhibit MDR. Such cells may or may not comprise an up-regulated ectophosphatase

MDR reversal and/or increasing of sensitivity to a cytotoxic agent in cells may be shown by growing the cells in the presence of relevant drugs and in the presence and absence of the inhibitor. Cells which cannot grow in the presence of a drug in the presence of an ectophosphatase inhibitor, have a reversal in MDR and/or increase in sensitivity to the agent.

The ectophosphatase inhibitory compositions of the present invention are useful in reversing drug resistance in mammalian cell lines grown in the presence of a drug (e.g. a chemotherapeutic agent). Analysis of sensitivity to a chemotherapeutic composition in mammalian cells may be shown, for example, by using the fluorescent compound calcein-AM. Esterases present in cells cleave the aceto-methoxy ester (AM) from the calcein-AM and liberate calcein. Calcein is a fluorescent compound which is excitable by the 488 nm laser of a FACS Caliber flow cytometer (Becton Dickenson, Franklin Lakes, N.J.), while the uncleaved calcein-AM is not excitable. Wild type cells incubated in the presence of calcein-AM show a high level of fluorescence while MDR state cells, which efflux the calcein-AM faster than the cellular esterases can cleave it, do not show a high level of fluorescence. The mammalian cells can be tested for the reversal of MDR with ectophosphatase inhibitors by the amount of calcein fluorescence detected in the cells.

Specificity of ectophosphatase inhibitors may be tested with the screening assays described herein. Inhibitors can be tested for their ability to inhibit acid phosphatases, alkaline

phosphatases, myosin phosphatases and the luciferase ATPase. The assays may be performed using techniques known in the art.

In one embodiment of the invention, the ectophosphatase is an apyrase and the ectophosphatase inhibitor is a molecule selected from among molecules represented by the Formulae I through XX. In another embodiment, the ectophosphatase is apyrase and the ectophosphatase inhibitor is a molecule selected from among molecules represented by the Formulae I through V.

In a further embodiment of the invention, the ectophosphatase is apyrase and the ectophosphatase inhibitor is a molecule represented by Formula XX. Formula XX is suramin or 8,8'[Carbonylbis[imino-3, 1 -phenylenecarbonylimino(4-methyl-3, 1 -phenylene)carbonylimino]]bis-1,3,5-naphthalenetrisulfonic acid. Suramin has been reported as a potent non-competitive inhibitor of ectoapyrase activity associated with the plasma membrane of cholinergic nerve terminal of *Torpedo marmorata* electric organs (Marti et al., 1996).

It is contemplated that in certain embodiments of the invention an ectophosphatase inhibitor may inhibit an ectophosphatase active on the outer membrane of an organelle of a eukaryotic cell. In this manner, contacting the cell with the ectophosphatase inhibitor may be used to decrease the ATP gradient across the organelle and thereby facilitate uptake of a biologically active agent by the organelle.

#### 20 I. Formulations

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Ectophosphatase inhibitor compositions, which may be acidic or basic in nature, can form a wide variety of salts with various inorganic and organic bases or acids, respectively. These salts may be physiologically acceptable for *in vivo* administration in mammals, including humans, as well as formulations for *ex vivo* applications, including agricultural use. Salts of acidic compounds are readily prepared by treating the acidic compound with an appropriate molar quantity of the chosen inorganic or organic base in an aqueous or suitable organic solvent and then evaporating the solvent to obtain the salt. Salts of basic compounds can be obtained similarly by treatment with the desired inorganic or organic acid and subsequent solvent evaporation and isolation. The skilled artisan can produce salts of ectophosphatase inhibitors using techniques known in the art.

The skilled artisan readily can determine the amount of the ectophosphatase inhibitor that is required to inhibit ectophosphatase by measuring ATPase activity in the presence and absence of varying amounts of the inhibitor. Phosphatase activity can be determined by assessing the dephosphorylation of ATP and liberation of phosphate as described herein. Additionally, parameters may be measured that are known to be associated with ectophosphatase activity to determine whether the molecule has ectophosphatase inhibitory activity. For example, ectophosphatase inhibitory activity may be measured in cells (e.g., yeast, plant, bacterial, mammalian, and tumor cell lines) by assessing the loss of resistance to drugs. Furthermore, the ectophosphatase inhibitory molecules of the present invention may be tested for specific inhibitory activity to ectophosphatases versus general phosphatases or for specific inhibitory activity for a particular ectophosphatase activity (e.g., apyrase).

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The present invention also provides physiologically acceptable compositions comprising an ectophosphatase inhibitor, a cytotoxic agent or other active ingredient and a physiologically acceptable carrier or diluent. In certain embodiments of the invention, as set forth in detail below, compositions are provided comprising one or more ectophosphatase inhibitor and one or more plant growth regulator, herbicide, fungicide, insecticide, antibiotic, chemotherapeutic agent or other active compound. In a further embodiment of the invention, the ectophosphatase is selected from the compounds of formulae I-XX in the appropriate carriers, diluents or other active ingredients.

The use of physiologically acceptable carriers or diluents is well known in the art. The techniques of preparation of pharmaceutical compositions are generally well known in the art as exemplified by Remington's Pharmaceutical Sciences, 16th Ed. Mack Publishing Company, 1980, which reference is specifically incorporated herein by reference in its entirety. Formulations of the present invention may be stable under the conditions of manufacture and storage and must be preserved against contamination by microorganisms.

The physiological forms of the compositions of the invention suitable for administration include sterile aqueous solutions or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. Typical carriers include a solvent or dispersion medium containing, for example, water buffered aqueous solutions (i.e., biocompatible buffers), ethanol, polyols such as glycerol, propylene glycol, polyethylene glycol,

suitable mixtures thereof, surfactants, and vegetable oils. Isotonic agents such as sugars or sodium chloride may be incorporated into the subject compositions.

Pharmaceutical compositions in accordance with the invention may be used by themselves or in combination with other forms active ingredients or therapeutics. One embodiment of the invention provides formulations for parenteral administration, e.g., formulated for injection via the intravenous, intramuscular, sub-cutaneous or other such routes. Typically, such compositions can be prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for using to prepare solutions or suspensions upon the addition of a liquid prior to injection also can be prepared; and the preparations also can be emulsified.

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Solutions of the active compounds as free base or pharmacologically acceptable salts can be prepared in water suitably mixed with a surfactant, such as hydroxypropylcellulose. Dispersions also can be prepared in glycerol, liquid polyethylene glycols, and mixtures thereof and in oils. Under ordinary conditions of storage and use, these preparations contain a preservative to prevent the growth of microorganisms.

The pharmaceutical forms suitable for injectable use include sterile aqueous solutions or dispersions; formulations including sesame oil, peanut oil or aqueous propylene glycol; and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. In all cases, the form must be sterile and must be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms, such as bacteria and fungi.

Carriers used also can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), suitable mixtures thereof, and vegetable oils. The proper fluidity can be maintained, for example, by the use of a coating, such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. The prevention of the action of microorganisms can be brought about by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, sorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars or sodium chloride. Prolonged absorption of the injectable compositions can be brought about by the use in the compositions of agents delaying absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions are prepared by incorporating the active compounds in the required amount in the appropriate solvent with various of the other ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the various sterilized active ingredients into a sterile vehicle which contains the basic dispersion medium and the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum-drying and freeze-drying techniques which yield a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

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Other modes of administration can also find use with the invention. For instance, pharmaceutical compounds may be formulated in suppositories and, in some cases, aerosol and intranasal compositions. For suppositories, the vehicle composition will include traditional binders and carriers such as polyalkylene glycols or triglycerides. Such suppositories may be formed from mixtures containing the active ingredient in the range of about 0.5% to about 10% (w/w), preferably about 1% to about 2%.

Ectophosphatase inhibitors will commonly comprise from less than 1% to about 10% w/v of a composition with an active ingredient, including about 1%, 3%, 5%, &% and about 10%. Greater or lesser amounts of the ectophosphatase inhibitors may similarly be used. Desired concentrations may readily be determined by serial preparation and assay of compositions comprising varying amounts of the selected ectophosphatase inhibitor compound. For example, in the case of herbicidal compositions, a series of test compositions comprising from about 0.1% to about 25% w/v of an ectophosphatase inhibitor together with a test herbicide may be analyzed by leaf painting and comparison of the results. Safety, efficacy, cost and other concerns may each be taken into account in selecting the desired concentrations. Alternatively, pharmaceutical compositions may be analyzed using *in vitro* or *in vivo* models.

Oral compositions may be prepared in the form of solutions, suspensions, tablets, pills, capsules, sustained release formulations, or powders. These compositions can be administered, for example, by swallowing or inhaling. Where a pharmaceutical composition is to be inhaled, the composition will preferably comprise an aerosol. Exemplary procedures for the preparation of aqueous aerosols may be found in U.S. Patent No. 5,049,388, the disclosure of which is specifically incorporated herein by reference in its entirety. Preparation of dry aerosol

preparations are described in, for example, U.S. Patent No. 5,607,915, the disclosure of which is specifically incorporated herein by reference in its entirety.

Also useful is the administration of the compounds described herein directly in transdermal formulations with permeation enhancers such as DMSO. These compositions can similarly include any other suitable carriers, excipients or diluents. Other topical formulations can be administered to treat certain disease indications. For example, intranasal formulations may be prepared which include vehicles that neither cause irritation to the nasal mucosa nor significantly disturb ciliary function. Diluents such as water, aqueous saline or other known substances can be employed with the subject invention. The nasal formulations also may contain preservatives such as, but not limited to, chlorobutanol and benzalkonium chloride. A surfactant may be present to enhance absorption of the subject compounds by the nasal mucosa.

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Upon formulation, solutions may be administered in a manner compatible with the dosage formulation and in such amount as is therapeutically effective. The formulation of choice can be accomplished using a variety of excipients including, for example, pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, sodium saccharin cellulose, magnesium carbonate, and the like. Typically, pharmaceutical compositions will contain from less than 1% to about 95% of the active ingredient, preferably about 10% to about 50%. Preferably, between about 10 mg/kg patient body weight per day and about 25 mg/kg patient body weight per day will be administered to a patient, including a human patient. The frequency of administration will be determined by the care given based on patient responsiveness. Other effective dosages can be readily determined by one of ordinary skill in the art through routine trials establishing dose response curves.

Regardless of the mode of administration, suitable pharmaceutical compositions in accordance with the invention will generally include an amount of active ingredient admixed with an acceptable pharmaceutical diluent or excipient, such as a sterile aqueous solution, to give a range of final concentrations, depending on the intended use. The techniques of preparation are generally well known in the art as exemplified by Remington's Pharmaceutical Sciences, 16th Ed. Mack Publishing Company, 1980, which reference is specifically incorporated herein by reference in its entirety. It should be appreciated that endotoxin contamination should be kept minimally at a safe level, for example, less that 0.5 ng/mg protein. Moreover, for human

administration, preparations should meet sterility, pyrogenicity, general safety and purity standards as required by FDA Office of Biological Standards.

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The therapeutically effective doses are readily determinable using an animal model. For example, experimental animals exhibiting a target infection or other ailment are frequently used to optimize appropriate therapeutic doses prior to translating to a clinical environment. Such models are known to be very reliable in predicting effective therapies. In certain embodiments, it may be desirable to provide a continuous supply of therapeutic compositions to the patient. For intravenous or intraarterial routes, this is accomplished by drip system. For topical applications, repeated application would be employed. For various approaches, delayed release formulations could be used that provided limited but constant amounts of the therapeutic agent over and extended period of time. For internal application, continuous perfusion of the region of interest may be preferred. This could be accomplished by catheterization, post-operatively in some cases, followed by continuous administration of the therapeutic agent. The time period for perfusion would be selected by the clinician for the particular patient and situation, but times could range from about 1-2 hours, to 2-6 hours, to about 6-10 hours, to about 10-24 hours, to about 1-2 days, to about 1-2 weeks or longer. Generally, the dose of the therapeutic composition via continuous perfusion will be equivalent to that given by single or multiple injections, adjusted for the period of time over which the injections are administered. It is believed that higher doses may be achieved via perfusion, however.

Therapeutic kits comprising the compositions described herein are also provided by the invention. Such kits will generally contain, in suitable container means, a pharmaceutically or agriculturally acceptable formulation of the active ingredient. The kits also may contain other pharmaceutically acceptable formulations, such as an antiinfective agent, including an insecticide, antifungal or antibacterial, as well as a herbicide.

The kits may have a single container means that contains the active ingredient, with or without any additional components, or they may have distinct container means for each desired agent. When the components of the kit are provided in one or more liquid solutions, the liquid solution is an aqueous solution, with a sterile aqueous solution being particularly preferred. However, the components of the kit may be provided as dried powder(s). When reagents or components are provided as a dry powder, the powder can be reconstituted by the addition of a suitable solvent. It is envisioned that the solvent also may be provided in another container

means. The container means of the kit will generally include at least one vial, test tube, flask, bottle, syringe or other container means, into which the active compound, and any other desired agent, may be placed and, preferably, suitably aliquoted. Where additional components are included, the kit will also generally contain a second vial or other container into which these are placed, enabling the administration of separated designed doses. The kits also may comprise a second/third container means for containing a sterile, pharmaceutically acceptable buffer or other diluent.

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The kits also may contain a means by which to administer the compositions to an animal or patient, e.g., one or more needles or syringes, or even an eye dropper, pipette, or other such like apparatus, from which the formulation may be injected into the animal or applied to a afflicted area of the body. The kits of the present invention will also typically include a means for containing the vials, or such like, and other component, in close confinement for commercial sale, such as, e.g., injection or blow-molded plastic containers into which the desired vials and other apparatus are placed and retained.

The invention also provides compositions formulated for agricultural use. Examples of such formulations include herbicidal, fungicidal and plant growth regulator compositions. Specific formulations for plant application are known to those of skill in the art and are described, for example, in U.S. Patent No. 6,242,382, the disclosure of which is specifically incorporated herein by reference in its entirety.

Examples of ingredients that may be included in a composition of the invention formulated for application to plants include surfactants, solid or liquid carriers, solvents and binders. Examples of suitable surfactants that may be used for application to plants include the alkali metal, alkaline earth metal or ammonium salts of aromatic sulfonic acids, e.g., ligno-, phenol-, naphthalene- and dibutylnaphthalenesulfonic acid, and of fatty acids of arylsulfonates, of alkyl ethers, of lauryl ethers, of fatty alcohol sulfates and of fatty alcohol glycol ether sulfates, condensates of sulfonated naphthalene and its derivatives with formaldehyde, condensates of naphthalene or of the naphthalenesulfonic acids with phenol and formaldehyde, condensates of phenol or phenolsulfonic acid with formaldehyde, condensates of phenol with formaldehyde and sodium sulfite, polyoxyethylene octylphenyl ether, ethoxylated isooctyl-, octyl-or nonylphenol, tributylphenyl polyglycol ether, alkylaryl polyether alcohols, isotridecyl alcohol, ethoxylated castor oil, ethoxylated triarylphenols, salts of phosphated triarylphenolethoxylates, lauryl alcohol

polyglycol ether acetate, sorbitol esters, lignin-sulfite waste liquors or methylcellulose, or mixtures of these. Common practice in the case of surfactant use is to include about 0.5 to 25% by weight, based on the total weight of the solid mixture.

Compositions for application to plants may be solid or liquid. Where solid compositions are used, it may be desired to include one or more carrier materials with the active compound. Examples of carriers include mineral earths such as silicas, silica gels, silicates, talc, kaolin, attaclay, limestone, chalk, loess, clay, dolomite, diatomaceous earth, calcium sulfate, magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers such as ammonium sulfate, ammonium phosphate, ammonium nitrate, thiourea and urea, products of vegetable origin such as cereal meals, tree bark meal, wood meal and nutshell meal, cellulose powders, attapulgites, montmorillonites, mica, vermiculites, synthetic silicas and synthetic calcium silicates, or mixtures of these.

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For liquid solutions, water-soluble compounds or salts may be included, such as sodium sulfate, potassium sulfate, sodium chloride, potassium chloride, sodium acetate, ammonium hydrogen sulfate, ammonium chloride, ammonium acetate, ammonium formate, ammonium oxalate, ammonium carbonate, ammonium hydrogen carbonate, ammonium thiosulfate, ammonium hydrogen diphosphate, ammonium dihydrogen monophosphate, ammonium sodium hydrogen phosphate, ammonium thiocyanate, ammonium sulfamate or ammonium carbamate.

Other exemplary components in compositions of the invention include binders such as polyvinylpyrrolidone, polyvinyl alcohol, partially hydrolyzed polyvinyl acetate, carboxymethylcellulose, starch, vinylpyrrolidone/vinyl acetate copolymers and polyvinyl acetate, or mixtures of these; lubricants such as magnesium stearate, sodium stearate, talc or polyethylene glycol, or mixtures of these; antifoams such as silicone emulsions, long-chain alcohols, phosphoric esters, acetylene diols, fatty acids or organofluorine compounds, and complexing agents such as: salts of ethylenediaminetetraacetic acid (EDTA), salts of trinitrilotriacetic acid or salts of polyphosphoric acids, or mixtures of these.

In certain embodiments of the invention, compositions are provided with herbicidal activity which comprise one or more ectophosphatase inhibitor(s) and a herbicide selected from the group consisting of pendimethalin, dicamba, 2,4-D, glufosinate, bentazon, trifluralin, oryzalin, S-metolachlor, nicosulfuron, MSMA, Epic<sup>TM</sup> and Balance<sup>TM</sup>. In one embodiment of the invention, the ectophosphatase inhibitor is selected from the group of the compounds of

formulae I-XX. In certain other embodiments of the invention, compositions with fungicidal activity are provided which comprise one or more ectophosphatase inhibitor(s) in combination with metalaxyl, tebuconazole, propiconazole, chlorothalonil and/or fluconazole.

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Non-limiting examples of combinations of cytotoxic agents and ectophosphatase inhibitors for use in accordance with the invention include: fluconazole with compound(s) of formula II, IX, XIV, XVI, XV, X and/or XII; formula I and/or II with pendimethalin, dicamba, 2,4-D, bentazon, trifluralin, flufenacet/isoxaflutole or isoxaflutole; glufosinate with formula II; oryzalin with formula I; nicosulfuron with formula II; MSMA with formula XVIII; S-metolachlor with formula VI and/or X; metribuzin with formula I, II and/or X; diuron with formula VI; metalaxyl with formula X; chlorothalonil with formula II, X, IX, XI, XVI; propiconazole with formula I, X, XIV and/or XVI; mancozeb with formula I, VI and/or X; captan with formula XIV and/or XVI; tebuconazole with formula I and/or X; imidacloprid with formula II, X, XVIII, XVI and/or XV; and fertilizers such as Nitrogen, Phosphate, Potash --12:12:12 with formula I and/or II.

Also envisioned for use with the invention are compositions comprising combinations of ectophosphatase inhibitors and cytotoxic agents or other active ingredients, including a herbicide, insecticide, antibiotic, fungicide, plant growth regulator and/or hormone. Such combinations may provide enhanced activity of the active ingredient relative to the use of a single ectophosphatase inhibitor. Non-limiting examples of such combinations of ectophosphatase inhibitors include combinations of two, three, four or more ectophosphatase inhibitors selected from formulas I, II, VI, X, XV, XIV, XVI, XVI, XV, and XVIII. Included for illustrative purposes are the following combinations: I and II; I, II and X; XIV and XVI; XVIII and XVI; XVIII and XV; VI and X; II and X; and II and XVIII.

Specifically contemplated by the inventors are compositions comprising an ectophosphatase inhibitor and an active ingredient set forth in Table 1.

Table 1: Cytotoxic agents and other active ingredients

Chamical Name	CACNIC	TIO EDA DO	G A . C1	TT (0)	
<u>Chemical Name</u>	CAS Number	U.S. EPA PC Code	CA Chem Code	<u>Use Type</u>	Chemical Class
Bis(2-ethylhexyl) phthalate	117-81-7	3E+05	NA 11	N/A	Alkyl Phthalate
Butyl benzyl phthalate	85-68-7	NA 141	3080	N/A	Alkyl Phthalate
Chlorthal-dimethyl	1861-32-1	78701	179	Herbicide	Alkyl Phthalate
Di-n-octyl phthalate	117-84-0	NA 303	223	N/A	Alkyl Phthalate
Dibutyl phthalate	84-74-2	28001	199	Insect	Alkyl Phthalate
				Repellent	
Diethyl phthalate	84-66-2	1E+05	3326	N/A	Alkyl Phthalate
Diisodecyl phthalate	NA 1037	NA 132	2513	N/A	Alkyl Phthalate
Dimethyl phthalate	131-11-3	28002	232	Insect	Alkyl Phthalate
Dio atril toward the late	NIA 724	374 122	0500	Repellent	111 1 1 1
Dioctyl terephthalate	NA 724 84-62-8	NA 133	2528	N/A	Alkyl Phthalate
Diphenyl phthalate Isooctyl phthalate	27554-26-3	17001	NA 147	N/A	Alkyl Phthalate
n-Butyl phthalate	84-74-2	NA 483 28001	2262	N/A	Alkyl Phthalate
Poly glyceryl phthalate ester of	NA 327	NA 608	3081 3331	Insecticide	Alkyl Phthalate
coconut oil fatty acid	NA 327	NA 006	3331	Adjuvant, Soap/Surfactant	Alkyl Phthalate
1,3-Dimethyl-1,1,3,3-	22232-20-8	34601	NA 303	N/A	Bis-Carbamate
disiloxanetetrol-1,3-		"""	111200	1011	Dis-Carbaniate
bis(dimethylthiocarbamate)	ı				
2,3(and 3,4)-Dichlorobenzyl	62046-37-1	3E+05	NA 136	Insecticide	N-Methyl Carbamate
methylcarbamates					
2,4-Dimethyl-1,3-dithiolane-2-	26419-73-8	4E+05	NA 143	Insecticide	N-Methyl Carbamate
carboxaldehyde O-					
(methylcarbamoyl)oxime					
2-(4,5-Dimethyl-1,3-dioxolan-	##########	4E+05	NA 145	Insecticide	N-Methyl Carbamate
2-yl)phenyl-N-					
methylcarbamate 2-chloro-4,5-xylyl N-hydroxy-	14257 92 5	25105	DTA 117	T .: 1	1777
N-methylcarbamate	14357-82-5	2E+05	NA 117	Insecticide	N-Methyl Carbamate
2-cyclopentylphenyl	3282-00-6	3E+05	NA 132	Insecticide	N-Methyl Carbamate
methylcarbamate	3202-00-0	35,03	1VA 132	msecucide	N-Methyl Carbamate
2-Hydroxyphenyl	10309-97-4	2E+05	NA 118	Insecticide	N-Methyl Carbamate
methylcarbamate			1111110	·	TV-IVICTIYI Cattaniate
3,4-Dichlorobenzyl	2328-31-6	3E+05	NA 136	Insecticide	N-Methyl Carbamate
methylcarbamate					
3,5-Diisopropylphenyl	330-64-3	4E+05	NA 142	Insecticide	N-Methyl Carbamate
methylcarbamate					
3-hydroxycarbofuran	16655-82-6	2E+05	4074	Breakdown	N-Methyl Carbamate
				product	
3-iodo-2-propynyl butyl	55406-53-6	1E+05	1938	Fungicide,	Other Carbamate
carbamate				Wood	
2 Iroto conhactarray	16709-30-1	374 1776	374 164	Preservative	
3-ketocarbofuran	16/09-30-1	NA 176	NA 164	Breakdown	N-Methyl Carbamate
4-	17702-57-7	4E+05	NIA 142	product	NT N (-411 C) - 1
(((Dimethylamino)methylene)a	17702-37-7	45703	NA 142	Insecticide	N-Methyl Carbamate
mino)-m-tolyl					
methylcarbamate					
4-(Methylamino)-3,5-xylyl	10389-50-1	2E+05	NA 118	Insecticide	N-Methyl Carbamate
methylcarbamate					Caroanate
4-(Methylformamido)-3,5-	10233-94-0	2E+05	NA 118	Insecticide	N-Methyl Carbamate
xylyl methylcarbamate					
				<del></del>	<del></del>

Chemical Name	CACNinnha	TIG EDA DO	I C 1 C1	T	
<u>Chemical Ivame</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
4-(Methylthio)-m-tolyl	3566-00-5	Code	Code		
methylcarbamate	3300-00-3	6E+05	NA 157	Insecticide	N-Methyl Carbamate
4-Amino-3,5-xylyl	831-76-5	2E+05	274 117	- · · · · ·	<u> </u>
methylcarbamate	651-70-5	2.E+05	NA 117	Insecticide	N-Methyl Carbamate
5,6,7,8-Tetrahydro-1-naphthyl	1136-84-1	4731.05	374 140	-	
methylcarbamate	1130-04-1	4E+05	NA 148	Insecticide	N-Methyl Carbamate
6-(and 2)-chloro-3,4-xylyl	8063-85-2	20701	374 200		
methylcarbamate	8003-83-2	38701	NA 322	Insecticide	N-Methyl Carbamate
6-Methyl-2-propyl-4-	2532-49-2	CTI OF	371.45=		
pyrimidinyl dimethylcarbamate	2332-49-2	6E+05	NA 157	N/A	Other Carbamate
Alanycarb	92120 01 0	274 195			
Aldicarb	83130-01-2	NA 175	NA 47	Insecticide	Other Carbamate
Aldicard	116-06-3	98301	575	Insecticide,	N-Methyl Carbamate
Aldicarb sulfoxide	1646.07.0	177.0		Nematicide	
Aldicard suitoxide	1646-87-3	1E+05	2361	Breakdown	N-Methyl Carbamate
Aldovisosh	1646.00.4	15.6		product	
Aldoxycarb	1646-88-4	1E+05	2265	Breakdown	N-Methyl Carbamate
A 11	6202.46.5			ргоduct	
Allyxycarb	6392-46-7	3E+05	NA 133	Insecticide	N-Methyl Carbamate
Aminocarb	2032-59-9	44401	2435	Insecticide	N-Methyl Carbamate
Asulalli	3337-71-1	1E+05	5076	Herbicide	Other Carbamate
Asulam, sodium salt	2302-17-2	1E+05	1746	Herbicide	Other Carbamate
Bendiocarb	22781-23-3	1E+05	1924	Insecticide	N-Methyl Carbamate
Benfuracarb	82560-54-1	1E+05	NA 48	Insecticide	Other Carbamate
Bufencarb	2282-34-0	59302	91	Insecticide	N-Methyl Carbamate
Bufencarb	8065-36-9	59303	NA 485	Insecticide	N-Methyl Carbamate
Bufencarb, component of (with	672-04-8	59301	NA 484	Insecticide	N-Methyl Carbamate
059302)					
Butacarb	2655-19-8	3E+05	NA 135	Insecticide	N-Methyl Carbamate
Butocarboxim	34681-10-2	NA 175	NA 49	Insecticide	N-Methyl Carbamate
Butoxycarboxim	34681-23-7	1E+05	2201	Insecticide	N-Methyl Carbamate
Butylate	2008-41-5	41405	565	Herbicide	Thiocarbamate
Calcium	5895-18-1	14501	NA 139	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)					
Carbanolate	671-04-5	2E+05	NA 124	Insecticide	N-Methyl Carbamate
Carbaryl	63-25-2	56801	105	Insecticide,	N-Methyl Carbamate
	,			Plant Growth	2. 1.10thy? Carbaniate
				Regulator,	
				Nematicide	1
Carbofuran	1563-66-2	90601	106	Insecticide,	N-Methyl Carbamate
				Nematicide	
Carbosulfan	55285-14-8	90602	2182	Insecticide	N-Methyl Carbamate
Chlorbufam	1967-16-4	6E+05	NA 157	Herbicide	Other Carbamate
Chlorprocarb	23121-99-5	3E+05	NA 136	Herbicide	Other Carbamate
Chlorpropham	101-21-3	18301	141	Herbicide,	Other Carbamate
				Plant Growth	Janox Carbannate
				Regulator	
Cloethocarb	51487-69-5	1E+05	NA 100	Insecticide,	N-Methyl Carbamate
				Molluscicide	a trioniyi Carbaniale
Cufraneb	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Cycloate	1134-23-2	41301	516	Herbicide	Thiocarbamate
Desmedipham	13684-56-5	1E+05	1748	Herbicide	Bis-Carbamate
Diammonium	########	14502	NA 140	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)					Diumocarbamate
Dichlormate	1966-58-1	3E+05	690	Herbicide	N. Mothyl Carl
Diethofencarb	87130-20-9	NA 184	NA 183	Fungicide	N-Methyl Carbamate
Dimepiperate	61432-55-1	NA 186	NA 185	Herbicide	Other Carbamate
		2141 100	11EX 103	TICIDICIDE	Thiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		<u>generalited Citago</u>
Dimetan	122-15-6	1E+05	NA 112	Insecticide	Other Carbamate
Dimethyl (4-methyl-1,3-	51543-98-7	1E+05	NA 888	Fungicide	Bis-Carbamate
phenylenebis(iminocarbonyl-		}		_	
1H-benzimidazole-1,2-			1		
diyl))biscarbamate					
Dimetilan	644-64-4	90101	NA 844	Insecticide	Other Carbamate
Dioxacarb	6988-21-2	4E+05	4067	Insecticide	N-Methyl Carbamate
EPTC	759-94-4	41401	264	Herbicide	Thiocarbamate
Esprocarb	85785-20-2	NA 203	NA 202	Herbicide	Thiocarbamate
Ethiofencarb	29973-13-5	1E+05	NA 50	Insecticide	N-Methyl Carbamate
Ethiolate	2941-55-1	1E+05	1793	Herbicide	Thiocarbamate
Fenethacarb	30087-47-9	3E+05	NA 141	Insecticide	N-Methyl Carbamate
Fenobucarb	3766-81-2	NA 176	NA 51	Insecticide	N-Methyl Carbamate
Fenothiocarb	62850-32-2	NA 188	NA 187	Insecticide	Thiocarbamate
. Fenoxycarb	79127-80-3	1E+05	2283	Insecticide,	Other Carbamate
				Insect Growth	
				Regulator	
Fenoxycarb	72490-01-8	NA 228	NA 228	Insecticide,	Other Carbamate
· '				Insect Growth	
				Regulator	
Ferbam	14484-64-1	34801	288	Fungicide	Dithiocarbamate
Ferric nitroso dimethyl	83542-83-0	5E+05	NA 149	Microbiocide	Dithiocarbamate
dithiocarbamate					
Formetanate	22259-30-9	5E+05	NA 150	Insecticide	N-Methyl Carbamate
Formetanate hydrochloride	23422-53-9	97301	111	Insecticide	N-Methyl Carbamate
Furathiocarb	65907-30-4	NA 176	NA 52	Insecticide	Thiocarbamate
Isolan	119-38-0	5E+05	NA 155	Insecticide	Other Carbamate
Isopolinate	3134-70-1	NA 232	NA 232	Herbicide	Thiocarbamate
Isoprocarb	2631-40-5	5E+05	NA 53	Insecticide	N-Methyl Carbamate
Karbutilate	4849-32-5	97401	691	Herbicide	Other Carbamate
m-Cumenyl methylcarbamate	64-00-6	47801	NA 414	Insecticide	N-Methyl Carbamate
Mancopper	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Mancozeb	#######################################	14504	211	Fungicide	Dithiocarbamate,
Maneb	10407 20 0	14505		· · · · · · · · · · · · · · · · · · ·	Inorganic-Zinc
Maneb and nickel sulfate	12427-38-2	14505	369	Fungicide	Dithiocarbamate
hexahydrate (014505 +	8005-46-7	6E+05	NA 158	Fungicide	Dithiocarbamate,
050505)					Inorganic-Nickel
Manganous	15339-36-3	34802	NIA 204	75	
dimethyldithiocarbamate	13339-30-3	34602	NA 304	Fungicide	Dithiocarbamate
Mecarbinizid	27386-64-7	6E+05	NA 157	N/A	Other Co. 1
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Other Carbamate
dithiocarbamate	13413-04-2	24606	709	Micropiocide	Inorganic-Mercury,
					Heavy metal,
Metam sodium, dihydrate	137-42-8	39003	NA 163	Fumigant,	Dithiocarbamate Dithiocarbamate
	137 12-0	37003	14X 105	Fungicide,	Dimocarbamate
				Microbiocide,	
				Algaecide,	
				Nematicide	
Metam-sodium	6734-80-1	39003	616	Fumigant,	Dithiocarbamate
				Herbicide,	Dianocaroanate
				Fungicide,	
	•	ļ <b>!</b>		Microbiocide,	
	i			Algaecide,	<b>!</b>
				Nematicide	İ
Methasulfocarb	66952-49-6	NA 202	NA 201	Fungicide,	Thiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Ico Trees	Cl- : 10
<u> </u>	OTIS INGINOCI	Code	Code	Use Type	Chemical Class
				Plant Growth	
	<u> </u>			Regulator	
Methiobencarb	18357-78-3	NA 232	NA 232	Herbicide	Thiocarbamate
Methiocarb	2032-65-7	1E+05	375	Insecticide,	N-Methyl Carbamate
Methiocarb sulfone	2150 05 1			Molluscicide	
Methocard surione	2179-25-1	2E+05	4077	Breakdown	N-Methyl Carbamate
Methiocarb sulfoxide	########	2E+05	4078	product	
	THE THE TENTE OF T	ZETUS	40/8	Breakdown product	N-Methyl Carbamate
Methomyl	16752-77-5	90301	383	Insecticide,	N-Methyl Carbamate
1		""	303	Breakdown	11-101cmyl Carbamate
				product	
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
					Inorganic-Zinc
Metolcarb	1129-41-5	NA 202	NA 201	Insecticide	N-Methyl Carbamate
Mexacarbate	315-18-4	44201	623	Insecticide	N-Methyl Carbamate
Mobam	1079-33-0	90401	NA 848	Insecticide	N-Methyl Carbamate
Molinate	2212-67-1	41402	449	Herbicide	Thiocarbamate
Molinate sulfoxide	NA 1052	NA 156	4080	Breakdown	Thiocarbamate
Morpholinomethyl	21040 11 0		271 172	product	
dimethyldithiocarbamate	31848-11-0	6E+05	NA 158	Microbiocide	Dithiocarbamate
Nabam	142-59-6	14503	417	T	
- Trubuiii	172-39-0	14303	417	Fungicide,	Dithiocarbamate
Nitrilacarb	29672-19-3	2E+05	NA 129	Herbicide Insecticide	040-1
o-(2-Propynyloxy)phenyl	3279-46-7	3E+05	NA 138	Insecticide	Other Carbamate
methylcarbamate	22,7 10 ,	55.03	14A 136	msecucide	N-Methyl Carbamate
Orbencarb	34622-58-7	NA 189	NA 188	Herbicide	Thiocarbamate
Oxamyl	23135-22-0	1E+05	1910	Insecticide,	N-Methyl Carbamate
			,	Nematicide	1 Wilding Carbainate
Pebulate	1114-71-2	41403	590	Herbicide	Thiocarbamate
Phenisopham	57375-63-0	NA 209	NA 208	Herbicide	Bis-Carbamate
Phenmedipham	13684-63-4	98701	675	Herbicide	Bis-Carbamate
Phenmedipham-ethyl	13684-44-1	4E+05	NA 149	Herbicide	Bis-Carbamate
Phenylmercuric	32407-99-1	66008	NA 555	Microbiocide,	Organomercury,
dimethyldithiocarbamate				Fungicide	Dithiocarbamate,
Pirimicarb	22122 22 2				Heavy metal
Pirimicarb sulfone	23103-98-2	1E+05	1875	Insecticide	N-Methyl Carbamate
i nimicaro surrone	NA 1050	NA 155	4090	Breakdown	N-Methyl Carbamate
Pirimicarb sulfoxide	NA 1049	NA 155	4091	product	27.76.7.10.1
	1171 1045	11A 155	4091	Breakdown product	N-Methyl Carbamate
Potassium ammonium	22221-14-3	14507	NA 141	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)		2.507	1477 144	Micropiocide	Dimiocardamate
Potassium asulam	14089-43-1	1E+05	NA 893	Herbicide	Other Carbamate
Potassium dimethyl dithio	128-03-0	34803	1934	Microbiocide	Dithiocarbamate
carbamate					Dianocaroaniate
Potassium N-hydroxymethyl-	51026-28-9	1E+05	1824	N/A	Dithiocarbamate
N-methyldithio carbamate					
Potassium N-methyldithio	137-41-7	39002	970	Fumigant,	Dithiocarbamate
carbamate				Fungicide,	
			1	Microbiocide,	j
	1	ļ	İ	Algaecide,	
Promacyl	34264 24 0	NIA 200	NTA CCC	Nematicide	
Promecarb	34264-24-9 2631-37-0	NA 209	NA 209	Insecticide	N-Methyl Carbamate
	2031-31-0	3E+05	4092	Insecticide	N-Methyl Carbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Heo Trees	Oh. 1 27
VIIIVIII TUITO	CAD NUMBER	Code	CA Chem Code	Use Type	Chemical Class
Propamocarb	24579-73-5	1E+05	2147	Francisida	0401
Propamocarb hydrochloride	25606-41-1	1E+05	4022	Fungicide	Other Carbamate
Propham	122-42-9	47601		Fungicide	Other Carbamate
Tiopham	122-42-9	4/001	339	Herbicide,	Other Carbamate
				Plant Growth	
Propineb	12071-83-9	CE LOS	371 455	Regulator	
Flopmeo	120/1-83-9	5E+05	NA 155	Fungicide,	Dithiocarbamate,
Propoxur	114.26.1	47000		Microbiocide	Inorganic-Zinc
Propoxur, other related	114-26-1	47802	62	Insecticide	N-Methyl Carbamate
Prosulfocarb	NA 1073	NA 161	90062	Insecticide	N-Methyl Carbamate
Prothiocarb	52888-80-9	NA 185	NA 184	Herbicide	Thiocarbamate
	19622-08-3	NA 183	NA 182	Fungicide	Thiocarbamate
Prothiocarb hydrochloride	19622-19-6	NA 200	NA 199	Fungicide	Thiocarbamate
Pyributicarb	88678-67-5	NA 229	NA 229	Herbicide	Thiocarbamate
Pyrolan	87-47-8	6E+05	NA 157	Insecticide	Other Carbamate
S-tert-Butyl	2212-63-7	2E+05	NA 128	Herbicide	Thiocarbamate
dipropylthiocarbamate				·	
Sodium dimethyl dithio	128-04-1	34804	548	Fungicide	Dithiocarbamate
carbamate	05.55		ļ <u>.</u>		
Sulfallate	95-06-7	39001	115	Herbicide	Dithiocarbamate
Swep	1918-18-9	84601	4098	N/A	Other Carbamate
Terbutol	<del>#########</del>	38801	51	Herbicide	N-Methyl Carbamate
Tert-butyl dimethyl trithio	3304-97-0	34807	1383	Rodent	Dithiocarbamate
peroxycarbamate				Repellent	<u> </u>
Tert-	NA 1130	NA 166	91383	N/A	Dithiocarbamate
butyldimethyltrithioperoxycarb					,
amate, other related					
Thiobencarb	28249-77-6	1E+05	1933	Herbicide	Thiocarbamate
Thiobencarb sulfoxide	NA 1042	NA 139	2937	Breakdown	Thiocarbamate
				product	
Thiocarboxime	25171-63-5	6E+05	NA 156	N/A	N-Methyl Carbamate
Thiodicarb	59669-26-0	1E+05	2202	Molluscicide,	Thiocarbamate
				Insecticide	
Thiofanox	39196-18-4	1E+05	2938	Insecticide	N-Methyl Carbamate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and	75497-92-6	56011	NA 463	Fungicide,	Dithiocarbamate
2-methyl-1-				Plant Growth	
naphthaleneacetamide and 2-				Regulator	
methyl-1-naphthaleneacetic					
acid					<u> </u>
Tiocarbazil	36756-79-3	1E+05	NA 911	Herbicide	Thiocarbamate
Triallate	2303-17-5	78802	49	Herbicide	Thiocarbamate
Tricopper dichloride	7076-63-3	5E+05	NA 152	Microbiocide	Dithiocarbamate,
dimethyldithiocarbamate					Inorganic-Copper
Trimethacarb	12407-86-2	1E+05	2962	Insecticide,	N-Methyl Carbamate
·			l	Molluscicide,	•
1	ŀ	[		Dog and Cat	
				Repellent	
Trimethacarb, (2,3,5)-	2655-15-4	1E+05	NA 882	Insecticide,	N-Methyl Carbamate
component of				Molluscicide	
Trimethacarb, (3,4,5)-	2686-99-9	1E+05	NA 881	Insecticide,	N-Methyl Carbamate
component of				Molluscicide	,
Vernolate	1929-77-7	41404	1987	Herbicide	Thiocarbamate
XMC	2655-14-3	NA 176	NA 54	Insecticide	N-Methyl Carbamate
Xylylcarb	########	NA 176	NA 55	Insecticide	N-Methyl Carbamate
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate,
			-	<b>-</b>	Inorganic-Zinc
			L		-8-38

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		Ontoniadar Orass
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate, Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide,	Dithiocarbamate,
				Microbiocide,	Inorganic-Zinc
,				Dog and Cat Repellent	_
Ziram, cyclohexylamine	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
complex		1		Repellent,	Inorganic-Zinc
				Fungicide	
Acetamiprid	135410-20-7	99050	NA 864	Insecticide	Chloro-nicotinyl
Imidacloprid	105827-78-9	#####	3849	Insecticide	Chloro-nicotinyl
Imidacloprid Thiacloprid	138261-41-3	#####	NA 111	Insecticide	Chloro-nicotinyl
Halofenozide	111988-49-9 112226-61-6	NA 201	NA 201	Insecticide	Chloro-nicotinyl
Methoxyfenozide	161050-58-4	##### #####	5019 NA 983	Insecticide	Diacylhydrazine
Tebufenozide	112410-23-8	###### ######	3957	Insecticide	Diacylhydrazine
Bacillus thuringiensis Cry1F	NA 1486	6481	NA 220	Insecticide Insecticide	Diacylhydrazine
protein and the genetic material	NA 1400	0461	IVA 220	msecucide	GE Crop
necessary for its production	•				
(plasmid insert PHI8999) in					
corn pla					·
Bacillus thuringiensis Cry1Ab	NA 1487	6430	NA 220	Insecticide	GE Crop
Delta-Endotoxin and the					,
Genetic Material Necessary for					
Its Production in Corn [MON				•	
810]	60000 =4 4				
Bacillus thuringiensis delta endotoxin produced in corn	68038-71-1	NA 160	3954	Insecticide	GE Crop
Bacillus thuringiensis subsp.	NA 1226	6463	NA 170	T	CE C
Kurstaki CryIA (c) delta-	NA 1220	0403	NA 170	Insecticide	GE Crop
endotoxin and the genetic					
material necessary for its					
production in corn					
Bacillus thuringiensis subsp.	68038-71-1	6444	5048	Insecticide	GE Crop
Kurstaki, delta-endotoxin as					-
produced in corn by an HD-1					
gene, and its controlling					
sequences and Bacillus thuringiensis subsp.	NA 1233	6166	NTA 171		
Tolworthi Cry9C protein and	NA 1233	6466	NA 171	Insecticide	GE Crop
the genetic material necessary					
for its production (pRVA9909)					•
in corn p					
Bacillus thuringiensis	NA 1237	6432	NA 171	Insecticide	GE Crop
subspecies Tenebrionis delta					
endotoxin as produced in					
potato by Cry IIIA gene and its					
controlling sequenc					
Bacillus thuringiensis var.	NA 1480	6402	3554	Insecticide	GE Crop
Kurstaki protein in cottonseed  Bacillus thuringiensis, subsp.	69020 71 1	CACT	2006		
Kurstaki, strain HD-1, delta-	68038-71-1	6461	3986	Insecticide	GE Crop
endotoxin as produced in corn					
by a Cry 1A(b) gene and its					1
controlling					]
HD-1 Protein as encoded by	NA 1273	6408	NA 173	Insecticide	GE Crop
Bacillus thuringiensis subsp.					52 570p

CI . 137	T	T			
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Investal in the last of the la		Code	Code		
kurstaki gene and produced in				1	
corn			<u> </u>		
Plant pesticide Bacillus	NA 1285	6458	NA 174	Insecticide	GE Crop
thuringiensis Cry1A(b) delta-		Ì		1	02 010p
endotoxin and the genetic					
material necessary for its		1		}	
production (plasmid V					· I
Potato leafroll virus (PLRV)	NA 1295	6469	NA 175	Fungicide	CE C
replicase protein as produced in		•,	1111173	rungicide	GE Crop
potato plants		Į	i		j
1,1,1-trichloroethane	71-55-6	81201	138	Colours	77.1
1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	NA 972	2960	Solvent	Halogenated organic
ethane	70 15 1	INA 912	2900	Solvent	Halogenated organic
1,1,2-trichloroethane	79-00-5	81203	1405		
1,2,3,4-Tetrachlorobenzene	634-66-2		1425	Solvent	Halogenated organic
1,2,4-trichlorobenzene	120-82-1	61101	NA 494	N/A	Halogenated organic
1,2-dichloropropane		81101	600	N/A	Halogenated organic
1,2-dicmoropropane	78-87-5	29002	2501	Fumigant,	Halogenated organic
1.2 Dichlarame				Nematicide	
1,2-Dichloropropane mixt. with	#######################################	29004	NA 215	Fumigant,	Halogenated organic
1,3-dichloropropene and			ì	Nematicide	
methyl isothiocyanate					
1,2-dichloropropane, 1,3-	NA 1022	29002	185	Fumigant,	Halogenated organic
dichloropropene and related C3				Nematicide	Zamogenated organic
compounds				1.0111110100	1 1
1,3-Dichloro-1-propene, mixt.	8003-19-8	29003	NA 214	Fumigant,	Halogenated organic
with 1,2-dichloropropane	ļ			Nematicide	Tratogenated organic
1,3-dichloropropene	542-75-6	29001	573	Fumigant,	TT-1 ( 1
		27001	3,3	Nematicide	Halogenated organic
1-chloro-1,1-difluoro ethane	75-68-3	NA 423	3103		TY 1
1-chlorobutane	109-69-3	NA 425	1151	Solvent	Halogenated organic
3-chloro-2-methyl propene	563-47-3	NA 422		Solvent	Halogenated organic
Bis(2,2-dichloroethyl)ether	1191-17-9		2463	N/A	Halogenated organic
Bromoethane	74-96-4	29502	NA 217	N/A	Halogenated organic
Carbon tetrachloride		NA 131	2427	N/A	Halogenated organic
ombon tetraemoride	56-23-5	16501	109	Solvent,	Halogenated organic
Carbon tetrachloride with EDB	50000 05 0	<del></del>		Fumigant	
	53908-27-3	16503	NA 146	Fumigant,	Halogenated organic
& EDC				Nematicide	
Carbon tetrachloride with EDC	###############	16502	NA 145	Fumigant,	Halogenated organic
				Nematicide	gozzato organic
Carbon tetrafluoride	75-73-0	NA 113	3099	Propellant	Halogenated organic
Chloro difluoro methane	75-45-6	15	3104	Propellant,	Halogenated organic
	ļ			Fumigant,	Transgenated organic
	r c	İ	- 1	Insecticide	!
Chlorodibromomethane	124-48-1	NA 426	2462	N/A	Walassand
Chloroform	67-66-3	20701	133	Solvent,	Halogenated organic
		-5,01	133		Halogenated organic
DBCP	96-12-8	11301	183	Fumigant	
	JU-12-0	11301	163	Fumigant,	Halogenated organic
DBCP, other related	NA 1079	NA 161	00100	Nematicide	
,,,	117 10/9	14W 101	90183	Fumigant,	Halogenated organic
Dichloroethylene, 1,1-	75-35-4	CELOS	- <del></del>	Nematicide	
Dichlorofluoromethane		6E+05	NA 13	Impurity	Halogenated organic
Difluoro diphenyl	75-43-4	NA 348	1815	Propellant	Halogenated organic
	475-26-3	32001	NA 293	N/A	Halogenated organic
trichloroethane					
Ethane, 1,1,1,2-tetrafluoro-	811-97-2	1E+05	NA 873	N/A	Halogenated organic
Ethyl chloride	75-00-3	NA 114	3198	N/A	Halogenated organic
			<del></del>		B

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC Type	Chemical Class
Ethylene chlorobromide	107-04-0	42001	2557	N/A	Halogenated organic
Ethylene dibromide	106-93-4	42002	271	Fumigant,	Halogenated organic
771 1 1:11				Nematicide	
Ethylene dichloride	107-06-2	42003	274	Fumigant,	Halogenated organic
Freon 11	75-69-4	13	1460	Insecticide	
Preon 11	/3-09-4	13	1460	Propellant,	Halogenated organic
				Fumigant, Insecticide	
Freon 12	75-71-8	14	1459	Propellant,	Halogenated organic
		Ì		Fumigant,	ranogenated organic
				Insecticide	
Halazone	80-13-7	77201	316	N/A	Halogenated organic
Hexachloroacetone	116-16-5	43701	320	Herbicide	Halogenated organic
Hexachloroacetone, other related	NA 1090	NA 162	90320	Herbicide	Halogenated organic
Hexachloroethane	67-72-1	45201	NIA 22	27/4	<del> </del>
Hydrofluorocarbon 152A	NA 617	NA 112	NA 22 2599	N/A Propellant	Halogenated organic
Methyl bromide	74-83-9	53201	385	Fumigant,	Halogenated organic Halogenated organic
		55201		Insecticide,	natogenated organic
				Herbicide,	
<del></del>				Nematicide	
Methyl chloride	74-87-3	53202	2677	N/A	Halogenated organic
Methyl iodide	74-88-4	NA 177	NA 165	Fumigant,	Halogenated organic
Methylene chloride	75.00.0	10001		Nematicide	
Methylene chioride	75-09-2	42004	388	Solvent, Dog	Halogenated organic
				and Cat Repellent	
Ortho-dichlorobenzene	95-50-1	59401	578	Insecticide	Halogenated organic
Ortho-dichlorobenzene, other	NA 1116	NA 165	90683	Insecticide	Halogenated organic
related					Traiogenated Organic
Para-dichlorobenzene	106-46-7	61501	455	Insecticide,	Halogenated organic
,				Insect	
				Repellent,	
				Rodenticide,	
Pentachloroethane	76-01-7	6E+05	NA 159	Fungicide N/A	Halananata I
Propargyl bromide	106-96-7	68701	NA 608	Fumigant,	Halogenated organic Halogenated organic
		00.01	141000	Nematicide	11atogenated organic
Tetrachloroethane	79-34-5	78601	3559	Solvent,	Halogenated organic
				Fumigant	
Tetrachloroethylene	127-18-4	78501	1174	Solvent	Halogenated organic
Tetraiodo ethylene	513-92-8	46908	582	N/A	Halogenated organic
trans-1,3-Dichloropropene Trichloro ethylene	10061-02-6	NA 227	NA 227	Fumigant	Halogenated organic
Trichlorobenzene	79-01-6 87-61-6	81202 NA 971	595	N/A	Halogenated organic
Trichlorofluoromethane	75-69-4	13	1619 3482	N/A Propellant,	Halogenated organic
	75 05 1	1.5	3402	Furnigant,	Halogenated organic
				Insecticide	
Trichloromethane	67-66-3	20701	1758	Solvent,	Halogenated organic
				Fumigant	
2,3(and 3,4)-Dichlorobenzyl	62046-37-1	#####	NA 136	Insecticide	N-Methyl Carbamate
methylcarbamates	26410.50.0	, , , , , , , , , , , , , , , , , , ,			
2,4-Dimethyl-1,3-dithiolane-2- carboxaldehyde O-	26419-73-8	######	NA 143	Insecticide	N-Methyl Carbamate
(methylcarbamoyl)oxime	İ		İ	j	
2-(4,5-Dimethyl-1,3-dioxolan-	1905930	#####	NA 145	Insecticide	N Mothed Cont
			7427177	TIBECUCIOE	N-Methyl Carbamate

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
2-yl)phenyl-N-		Code	Code		
methylcarbamate					
2-chloro-4,5-xylyl N-hydroxy-	14357-82-5	#####	NTA 115	<del> </del>	
N-methylcarbamate	14337-02-3	#######	NA 117	Insecticide	N-Methyl Carbamate
2-cyclopentylphenyl	3282-00-6	#####	NA 132	T	
methylcarbamate	3202-00-0	7777777	NA 132	Insecticide	N-Methyl Carbamate
2-Hydroxyphenyl	10309-97-4	#####	NA 118	To an atial d	27.26.1
methylcarbamate		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IVA 110	Insecticide	N-Methyl Carbamate
3,4-Dichlorobenzyl	2328-31-6	#####	NA 136	Insecticide	N Mad-10 1
methylcarbamate		""""	1421 130	Hisecucide	N-Methyl Carbamate
3,5-Diisopropylphenyl	330-64-3	#####	NA 142	Insecticide	N-Methyl Carbamate
methylcarbamate				Inscorrence	14-141culyi Carbamate
3-hydroxycarbofuran	16655-82-6	#####	4074	Breakdown	N-Methyl Carbamate
				product	2. Modifi Carbaniate
3-ketocarbofuran	16709-30-1	NA 176	NA 164	Breakdown	N-Methyl Carbamate
4-				product	
(((Dimethylamino)methylene)a	17702-57-7	· #####	NA 142	Insecticide	N-Methyl Carbamate
mino)-m-tolyl	i				
methylcarbamate					
4-(Methylamino)-3,5-xylyl	10389-50-1	211111111	371 110		
methylcarbamate	10363-30-1	#####	NA 118	Insecticide	N-Methyl Carbamate
4-(Methylformamido)-3,5-	10233-94-0	; <del>              </del>	NA 118	T	
xylyl methylcarbamate	10255-54-0	. <del>1111111111</del>	NA 118	Insecticide	N-Methyl Carbamate
4-(Methylthio)-m-tolyl	3566-00-5	#####	NA 157	Tunnati di 1	12725
methylcarbamate		nunn <del>n</del>	IVA 15/	Insecticide	N-Methyl Carbamate
4-Amino-3,5-xylyl	831-76-5	#####	NA 117	Insecticide	N Mathal C 1
methylcarbamate			1121 117	msecucide	N-Methyl Carbamate
5,6,7,8-Tetrahydro-1-naphthyl	.1136-84-1	#####	NA 148	Insecticide	N-Methyl Carbamate
methylcarbamate					11-Michiyi Catbaniate
6-(and 2)-chloro-3,4-xylyl	8063-85-2	38701	NA 322	Insecticide	N-Methyl Carbamate
methylcarbamate	-,				1. Monty Carbannate
Aldicarb	116-06-3	98301	575	Insecticide,	N-Methyl Carbamate
Aldicarb sulfoxide	1616.07.5			Nematicide	
Aidicaro sulloxide	1646-87-3	<del>######</del>	2361	Breakdown	N-Methyl Carbamate
. Aldoxycarb	1646-88-4	20000		product	
Aldoxycarb	1040-88-4	#####	2265	Breakdown	N-Methyl Carbamate
Allyxycarb	6392-46-7	#####	NA 100	product	
Aminocarb	2032-59-9	44401	NA 133	Insecticide	N-Methyl Carbamate
Bendiocarb	22781-23-3	#####	2435 1924	Insecticide	N-Methyl Carbamate
Bufencarb	2282-34-0	59302	91	Insecticide	N-Methyl Carbamate
Bufencarb	8065-36-9	59303	NA 485	Insecticide	N-Methyl Carbamate
Bufencarb, component of (with	672-04-8	59301	NA 484	Insecticide	N-Methyl Carbamate
059302)		35301	NA 404	Insecticide	N-Methyl Carbamate
Butacarb	2655-19-8	#####	NA 135	Insecticide	NI Mathed C. 1
Butocarboxim	34681-10-2	NA 175	NA 49	Insecticide	N-Methyl Carbamate N-Methyl Carbamate
Butoxycarboxim	34681-23-7	#####	2201	Insecticide	
Carbanolate	671-04-5	#####	NA 124	Insecticide	N-Methyl Carbamate N-Methyl Carbamate
Carbaryl	63-25-2	56801	105	Insecticide,	N-Methyl Carbamate
[				Plant Growth	2. Monty Carbaniate
İ		1		Regulator,	
Collec				Nematicide	
Carbofuran	1563-66-2	90601	106	Insecticide,	N-Methyl Carbamate
Carbosulfan	55005 14 0			Nematicide	
Caroosunan	55285-14-8	90602	2182	Insecticide	N-Methyl Carbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	Ose Type	Chemical Class
Cloethocarb	51487-69-5	#####	NA 100	Insecticide, Molluscicide	N-Methyl Carbamate
Dichlormate	1966-58-1	#####	690	Herbicide	N-Methyl Carbamate
Dioxacarb	6988-21-2	#####	4067	Insecticide	N-Methyl Carbamate
Ethiofencarb	29973-13-5	######	NA 50	Insecticide	N-Methyl Carbamate
Fenethacarb	30087-47-9	#####	NA 141	Insecticide	N-Methyl Carbamate
Fenobucarb	3766-81-2	NA 176	NA 51	Insecticide	N-Methyl Carbamate
Formetanate	22259-30-9	#####	NA 150	Insecticide	N-Methyl Carbamate
Formetanate hydrochloride	23422-53-9	97301	111	Insecticide	N-Methyl Carbamate
Isoprocarb	2631-40-5	#####	NA 53	Insecticide	N-Methyl Carbamate
m-Cumenyl methylcarbamate	64-00-6	47801	NA 414	Insecticide	N-Methyl Carbamate
Methiocarb	2032-65-7	######	375	Insecticide, Molluscicide	N-Methyl Carbamate
Methiocarb sulfone	2179-25-1	#####	4077	Breakdown	N-Methyl Carbamate
				product	11 Wiedly Carbaniaic
Methiocarb sulfoxide	267266	#####	4078	Breakdown	N-Methyl Carbamate
	***************************************			product	· · · · · · · · · · · · · · · · · · ·
Methomyl	16752-77-5	90301	383	Insecticide,	N-Methyl Carbamate
				Breakdown	
	-			product	
Metolcarb	1129-41-5	NA 202	NA 201	Insecticide	N-Methyl Carbamate
Mexacarbate	315-18-4	44201	623	Insecticide	N-Methyl Carbamate
Mobam	1079-33-0	90401	NA 848	Insecticide	N-Methyl Carbamate
o-(2-Propynyloxy)phenyl methylcarbamate	3279-46-7	#####	NA 138	Insecticide	N-Methyl Carbamate
Oxamyl	23135-22-0	#####	1910	Insecticide, Nematicide	N-Methyl Carbamate
Pirimicarb	23103-98-2	#####	1875	Insecticide	N Mothyl Conhamata
Pirimicarb sulfone	NA 1050	NA 155	4090	Breakdown	N-Methyl Carbamate N-Methyl Carbamate
Pirimicarb sulfoxide	NA 1049	NA 155	4091	product Breakdown	N-Methyl Carbamate
Promacyl	34264-24-9	NA 209	NIA 200	product	7776
Promecarb	2631-37-0	NA 209 #####	NA 209	Insecticide	N-Methyl Carbamate
Propoxur	114-26-1	47802	4092 62	Insecticide Insecticide	N-Methyl Carbamate
Propoxur, other related	NA 1073	NA 161	90062	Insecticide	N-Methyl Carbamate
Terbutol	5419	38801	51	Herbicide	N-Methyl Carbamate
Thiocarboxime	25171-63-5	#####	NA 156	N/A	N-Methyl Carbamate
Thiofanox	39196-18-4	#####	2938	Insecticide	N-Methyl Carbamate
Trimethacarb	12407-86-2	#####	2962	Insecticide,	N-Methyl Carbamate N-Methyl Carbamate
				Molluscicide,	11-1110thyl Carbaniate
				Dog and Cat	
				Repellent	
Trimethacarb, (2,3,5)- component of	2655-15-4	#####	NA 882	Insecticide, Molluscicide	N-Methyl Carbamate
Trimethacarb, (3,4,5)- component of	2686-99-9	#####	NA 881	Insecticide,	N-Methyl Carbamate
XMC	2655 14 2	371 106		Molluscicide	
	2655-14-3	NA 176	NA 54	Insecticide	N-Methyl Carbamate
Xylylcarb Aldrin	190572	NA 176	NA 55	Insecticide	N-Methyl Carbamate
Aldrin, other related	309-00-2 NA 1060	45101	9	Insecticide	Organochlorine
alpha-BHC	NA 1069 319-84-6	NA 160	90009	Insecticide	Organochlorine
Arochlor (composition		NA 200	767	Insecticide	Organochlorine
unspecified, PCBs and/or PCTs)	12767-79-2	17803	NA 161	N/A	Organochlorine
Aroclor	1336-36-3	17801	5002	77/4	
	1000-00-0	17001	5003	N/A	Organochlorine

Catemical Name   Catemical Class   Catemical Class	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	T (7) 1 2
Bandane		<u>Orio riunion</u>			Ose Type	Cnemical Class
BHC (other than gamma isomer)	Bandane	8029-29-6			Insecticide	Organochlorina
Sometham	BHC (other than gamma					
Chlordane					1 AASOCHOIGE	Organochiorme
Chlordane	BHC, beta isomer	319-85-7	NA 175	NA 46	Insecticide	Organochlorine
Chlordane, etherical   12789-03-6   58202   NA 477   Insecticide   Organochlorine   Chlorende, technical   12789-03-6   58202   NA 477   Insecticide   Organochlorine   Chlorendic Acid   15-28-6   NA 228   NA 249   NA		57-74-9	58201	130		
Chlordeane, technical   12789-03-6   58202   NA 477   Insecticide   Organochlorine   Chlordecone   143-50-0   27701   347   Insecticide   Organochlorine   Chlorendic Acid   115-28-6   NA 228   NA 228   NA 208   Na 201   Na 208   Na 206   Na 206   Na 200		NA 1075	NA 161	90130		
Chloredecone		12789-03-6	58202	NA 477		
Chlorendic Acad   115-28-6   NA 228   N/A   Organochlorine   DDD   72-54-8   29101   3002   Insecticide   Organochlorine		143-50-0	27701	347	<del></del>	
DDD			NA 228	NA 228	<del></del>	
DDD			29101	3002	Insecticide	
DDD, other related   NA 1080   NA 161   90184   Breakdown product	DDD	6088-31-3	NA 415	184	Breakdown	
DDE						
DDE	DDD, other related	NA 1080	NA 161	90184		Organochlorine
DDT						
DDT   50-29-3   29201   186   Insecticide   Organochlorine   Dicofol   115-32-2   10501   346   Insecticide   Organochlorine   Dieldrin   60-57-1   45001   210   Insecticide   Organochlorine   Dieldrin, other related   NA 1085   NA 162   90210   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8   NA 1319   NA 177   NA 176   Impurity   Organochlorine   Dioxin (other than 2,3,7,8   NA 1319   NA 177   NA 176   Impurity   Organochlorine   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Endosulfan   115-29-7   79402   NA 771   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Endosulfan sulfate   1031-07-8   79404   4047   Breakdown   Organochlorine   Droduct   Endrin   4068   Avicide   Avicide   Endrin   4068   Avicide   Avicide   Avicide   Endrin   4068   NA 166   4069   Breakdown   Organochlorine   Endrin   4068   NA 162   90262   Insecticide   Organochlorine   Endrin, other related   NA 1086   NA 162   90262   Insecticide   Organochlorine   Heptachlor   76-44-8   44801   317   Insecticide   Organochlorine   Heptachlor   4045-7-3   44801   4073   Breakdown   Organochlorine   Heptachlor   4045-46-8   ####   2587   Impurity   Organochlorine   Organochlorine   Hexachlorocyclopentadien   77-47-4   27502   NA 21   Insecticide   Organochlorine   Organochlorine   Hexachlorocyclopentadien   77-47-4   27502   NA 21   Insecticide   Organochlorine   Organochlorine   Hexachlorocyclopentadien   77-47-4   27502   NA 21   Insecticide   Organochlorine   Organochlorine   Hexachlorocyclopentadien   77-47-4   27502   NA 21   Insecticide   Organochlorine   Organochlorine   118-74-1   51001   359   Insecticide   Organochlorine   Organochlorine   Methoxychlor   4234-79-1   NA 208   NA 208   Insecticide   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organo	DDE	72-55-9	NA 129	2092		Organochlorine
Dicofol   115-32-2   10501   346   Insecticide   Organochlorine   Dieldrin   60-57-1   45001   210   Insecticide   Breakdown   Dieldrin, other related   NA 1085   NA 162   90210   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   TCDD)   TOXIN (0ther than 2,3,7,8-TCDD)   TAGE   TCDD   TAGE   TC	DDT	50 00 0				
Dieldrin   Go-57-1   45001   210   Insecticide, Breakdown product   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (23,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (05,37,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Organochlorine   Dioxin (05,37,8-TCDD)   Table   TCDD)   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   TCDD   Table   Table   TCDD   Table   Table   TCDD   Table   Table   TcDD   Table   Table   Table   TcDD   Table   Table   Table   TcDD   Table   Tabl						
Dieldrin, other related   Dienochlor						
Dieldrin, other related   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8- NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79402   NA 771   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Endosulfan sulfate   1031-07-8   79404   4047   Breakdown   Organochlorine   Dranochlorine   Endrin aldehyde   7421-93-4   NA 156   4069   Breakdown   Organochlorine   Endrin ketone   53494-70-5   41601   5029   Breakdown   Organochlorine   Endrin, other related   NA 1086   NA 162   90262   Insecticide   Organochlorine   Heptachlor   76-44-8   44801   317   Insecticide   Organochlorine   Heptachlor opoxide   1024-57-3   44801   4073   Breakdown   Organochlorine   Heptachlor, other related   NA 1089   NA 162   90317   Insecticide   Organochlorine   Hexachlorobenzene   118-74-1   61001   321   Microbiocide, Fungicide, Insecticide   Organochlorine   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 21   Insecticide   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 21   Insecticide   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 20   Insecticide   Organochlorine   Hexachlorocyclopentadiene   58-89-9   9001   359   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine	Dielarin	60-57-1	45001	210		Organochlorine
Dieldrin, other related   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Endosulfan I (alpha)   959-98-8   79402   NA 771   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Endosulfan sulfate   1031-07-8   79404   4047   Breakdown   Organochlorine   Product   Endrin   72-20-8   41601   262   Insecticide, Avicide   Avicide   Avicide   Avicide   Avicide   Avicide   Endrin aldehyde   7421-93-4   NA 156   4069   Breakdown   Organochlorine   Product   Endrin, other related   NA 1086   NA 162   90262   Insecticide   Organochlorine   Heptachlor   76-44-8   44801   317   Insecticide   Organochlorine   Heptachlor epoxide   1024-57-3   44801   4073   Breakdown   Organochlorine   Hexachlorodibenzo-p-dioxin   34465-46-8   #####   2587   Impurity   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 21   Insecticide   Organochlorine   Hexachlorodibenzofuran (as impurity)   Insecticide   Organochlorine   Hexachlorodibenzofuran (as impurity)   S684-94-1   #####   NA 161   Impurity   Organochlorine   Insecticide   Organochlorine   Organochlorine   S68-89-9   9001   359   Insecticide   Organochlorine					,	
Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Endosulfan I (alpha)   959-98-8   79402   NA 771   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79404   4047   Breakdown   Organochlorine   Endrin   72-20-8   41601   262   Insecticide   Organochlorine   Organochlorine   Endrin aldehyde   7421-93-4   NA 156   4069   Breakdown   Organochlorine   Product   Endrin ketone   53494-70-5   41601   5029   Breakdown   Organochlorine   Endrin, other related   NA 1086   NA 162   90262   Insecticide   Organochlorine   Heptachlor   76-44-8   44801   317   Insecticide   Organochlorine   Heptachlor epoxide   1024-57-3   44801   4073   Breakdown   Organochlorine   Heptachlor, other related   NA 1089   NA 162   90317   Insecticide   Organochlorine   Hexachlorodibenzo-p-dioxin   34465-46-8   #####   2587   Impurity   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 21   Insecticide   Organochlorine   Hexachlorocyclopentadiene   77-47-4   27502   NA 21   Insecticide   Organochlorine   Hexachlorodibenzofuran (as inspurity)   13901   1390	Dieldrin other related	NIA 1005	NIA 162	00010		
Dioxin (2,3,7,8-TCDD)   1746-01-6   ##### 4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-						
Dioxin (other than 2,3,7,8-TCDD)  Bindosulfan 115-29-7 79401 259 Insecticide Organochlorine Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown Organochlorine Endosulfan sulfate 1031-07-8 41601 262 Insecticide, Organochlorine Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown Organochlorine Product Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown Organochlorine Product Endrin other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 976-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown Organochlorine Hexachlorodibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorodibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzo-p-dioxin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Insecticide, Rodenticide Organochlorine Season Pount Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Season Pount Insecticide Organochlorine Hexachlorodyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Insecticide Insecticide Organochlorine Season Pount Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Organochlorine Insecticide Organochlorine Organochlorine Insecticide Organochlorine Organochlorin						
TCDD	Dioxin (other than 2.2.7.9					
Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown product Endrin 72-20-8 41601 262 Insecticide, Avicide Breakdown product Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclohexane 55684-94-1 ##### NA 161 Impurity Organochlorine Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Organochlorine Na 164 Organochlorine Organochlorine Organochlorine Se8-89-9 9001 359 Insecticide Organochlorine Organochl		NA 1319	NA 177	NA 176	Impurity	Organochlorine
Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown product Endrin 72-20-8 41601 262 Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown Organochlorine Organochlorine Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Organochlorine Hexachlorocyclohexane 465-73-6 NA 208 NA 207 Insecticide Organochlorine Organochlorine Organochlorine Insecticide Organochlorine Organo		115 20 7	70401	050		
Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Endosulfan sulfate   1031-07-8   79404   4047   Breakdown product   Insecticide, Avicide   Endrin aldehyde   7421-93-4   NA 156   4069   Breakdown product   Organochlorine   Endrin ketone   53494-70-5   41601   5029   Breakdown product   Organochlorine   Endrin, other related   NA 1086   NA 162   90262   Insecticide   Organochlorine   Heptachlor   76-44-8   44801   317   Insecticide   Organochlorine   Heptachlor epoxide   1024-57-3   44801   4073   Breakdown product   Organochlorine   Heptachlor, other related   NA 1089   NA 162   90317   Insecticide   Organochlorine   Hexachloro dibenzo-p-dioxin   34465-46-8   #####   2587   Impurity   Organochlorine   Hexachlorocyclohexane   118-74-1   61001   321   Microbiocide, Fungicide, Insecticide   Organochlorine   Hexachlorocyclohexane   608-73-1   8901   NA 20   Insecticide   Organochlorine   Hexachlorocyclohexane   55684-94-1   #####   NA 161   Impurity   Organochlorine   Hexachlorodibenzofuran (as impurity)   1sodrin   465-73-6   NA 208   NA 207   Insecticide   Organochlorine   Organochlorine   Kelevan   4234-79-1   NA 208   NA 208   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlorine   Methoxychlor   72-43-5   34001   384   Insecticide   Organochlorine   Organochlor						
Endosulfan sulfate  Endrin  T2-20-8  Endrin  T2-20-8  Endrin aldehyde  Endrin aldehyde  Endrin other related  Heptachlor epoxide  Heptachlor, other related  Hexachlorodibenzene  Hexachlorocyclohexane  Hexachlorocyclopentadiene  Hexachlorodibenzofuran (as impurity)  Isodrin  Endrin sulfate  1031-07-8  T9404  4047  Breakdown product  Avicide  Avicide  Avicide  Breakdown product  Fundin, 4069  Breakdown product  Breakdown product  Insecticide  Organochlorine  Insecticide  Organochlorine  Organochlorine  Organochlorine  Insecticide  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Insecticide  Organochlorine  Organochlorine  Insecticide  Organochlorine  Organochlorine  Insecticide  Organochlorine  Organochlorine  Organochlorine  Insecticide  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine						
Endrin 72-20-8 41601 262 Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
Endrin 72-20-8 41601 262 Insecticide, Avicide  Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide, Rodenticide  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine  Motherwhyle of the Advance of th	Lindosulian sunate	1031-07-8	/9404	4047		Organochlorine
Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Insecticide Insecticide  Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorocyclopentadiene 55684-94-1 ##### NA 161 Impurity Organochlorine  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Lindane 58-89-9 9001 359 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Endrin	72-20-8	41601	262		
Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorochlorine 15684-94-1 ##### NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		72-20-6	41001	202		Organochlorine
Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachlor dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity)	Endrin aldehyde	7421-93-4	NA 156	4060		
Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) 1sodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Indiane 58-89-9 9001 359 Insecticide, Rodenticide Organochlorine Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		2	1111150	. 4009		Organochiorine
Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Insecticide Organochlorine NA 161 Impurity Organochlorine Kelevan 4234-79-1 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Endrin ketone	53494-70-5	41601	5029		0=====1:1=:
Endrin, other related Heptachlor T6-44-8 Heptachlor T6-44-8 Heptachlor epoxide Heptachlor epoxide Heptachlor, other related Heptachlor, other related Hexachloro dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 90317 Insecticide Organochlorine Product Hexachloro dibenzo-p-dioxin Hexachlorobenzene  118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorodibenzofuran (as impurity)  Isodrin Kelevan 4234-79-1 NA 208 NA 208 NA 208 Insecticide Organochlorine NA 208 Insecticide Organochlorine NA 208 Insecticide Organochlorine NA 208 Insecticide Organochlorine NA 208 Insecticide Organochlorine Na 208 Insecticide Organochlorine Insecticide Organochlorine NA 208 Insecticide Organochlorine NA 208 Insecticide Organochlorine Insecticide Organochlorine NA 208 Insecticide Organochlorine Insecticide Organochlorine NA 208 Insecticide Organochlorine Na 208 Insecticide Organochlorine Insecticide Organochlorine Na 208 Insecticide Organochlorine Insecticide Organochlorine Na 208 Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine Insecticide Organochlorine			12001	5027		Organochiorine
Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Endrin, other related	NA 1086	NA 162	90262		Organochloring
Heptachlor epoxide  1024-57-3  44801  4073  Breakdown product  Heptachlor, other related  NA 1089  NA 162  90317  Insecticide  Organochlorine  Hexachloro dibenzo-p-dioxin  Hexachlorobenzene  118-74-1  61001  321  Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane  Hexachlorocyclopentadiene  Hexachlorocyclopentadiene  77-47-4  27502  NA 201  Insecticide  Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin  465-73-6  NA 208  NA 207  Insecticide  Organochlorine  NA 161  Impurity  Organochlorine  NA 161  Impurity  Organochlorine  NA 161  Impurity  Organochlorine  NA 208  NA 207  Insecticide  Organochlorine  NA 208  NA 208  Insecticide  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Na 208  Na 208  Insecticide  Organochlorine  Organochlorine	Heptachlor	76-44-8				
Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Heptachlor epoxide	1024-57-3				
Heptachlor, other related   NA 1089   NA 162   90317   Insecticide   Organochlorine						Organocinornie
Hexachloro dibenzo-p-dioxin Hexachlorobenzene  118-74-1  61001  321  Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane Hexachlorocyclopentadiene Hexachlorodibenzofuran (as impurity)  Isodrin  465-73-6  Kelevan  4234-79-1  Lindane  Methoxychlor  Methoxychlor  Methoxychlor  118-74-1  61001  321  Microbiocide, Fungicide, Insecticide Methoxychlor  NA 20  Insecticide  Organochlorine  H####  NA 161  Impurity  Organochlorine  Impurity  Organochlorine  Methoxychlor  72-43-5  34001  384  Insecticide Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine		NA 1089	NA 162	90317		Organochlorine
Hexachlorobenzene  118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Insecticide Organochlorine NA 208 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine Organochlorine	Hexachloro dibenzo-p-dioxin	34465-46-8				
Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity)  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Hexachlorobenzene					
Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						Organochiothic
Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
Hexachlorocyclopentadiene  T7-47-4  27502  NA 21  Insecticide  Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin  Kelevan  Lindane  Methoxychlor  T2-43-5  Methoxychlor  A 27502  NA 21  Insecticide  NA 21  Insecticide  Impurity  NA 161  Impurity  Organochlorine  NA 208  NA 207  Insecticide  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine		608-73-1	8901	NA 20		Organochlorine
Hexachlorodibenzofuran (as impurity)  Isodrin  Kelevan  Lindane  Methoxychlor  72-43-5  Methoxychlor  S5684-94-1  #####  NA 161  Impurity  NA 161  Impurity  Organochlorine  Organochlorine  NA 208  NA 207  Insecticide  Organochlorine  Organochlorine  NA 208  Insecticide,  Rodenticide  Organochlorine  Organochlorine  Organochlorine		77-47-4				
impurity)  Isodrin  465-73-6  NA 208  NA 207  Insecticide  Organochlorine  Kelevan  4234-79-1  NA 208  NA 208  Insecticide  Organochlorine  S8-89-9  9001  359  Insecticide,  Rodenticide  Methoxychlor  72-43-5  34001  384  Insecticide  Organochlorine  Organochlorine		55684-94-1	#####			
Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine					,	2-8
Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine			NA 208		Insecticide	Organochlorine
Lindane 58-89-9 9001 359 Insecticide, Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		4234-79-1				
Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Lindane	58-89-9	9001			
Motherweller at a 1 1 21 1000					- 1	J
				384	Insecticide	Organochlorine
	Methoxychlor, other related	NA 1093	NA 162	90384	Insecticide	

Chemical Name	CAS Number	U.S. EPA PC	CA Char	I I a T	
	CUD LAMINGI.	Code	CA Chem Code	Use Type	Chemical Class
Mirex	2385-85-5	39201	402	Ingonticide	<del>                                     </del>
Nonachlor	3734-49-4	44802	5448	Insecticide	Organochlorine
Oxychlordane	27304-13-8	NA 177	NA 177	Insecticide	Organochlorine
	27307-15-0	100.177	INA I//	Breakdown	Organochlorine
Oxychlordane, mix of isomers	26880-48-8	NA 177	NA 177	product	
	20000 40-0	I IVALITY	NA 1//	Breakdown	Organochlorine
Strobane	8001-50-1	20401	553	product Insecticide	
Toxaphene	8001-35-2	80501	594		Organochlorine
trans-Nonachlor	39765-80-5	NA 177	NA 177	Insecticide	Organochlorine
(E)-Mevinphos	298-01-1	15802	NA 143	Insecticide	Organochlorine
(Z)-Mevinphos	338-45-4	15802	NA 144	Insecticide	Organophosphorus
2,5-dichloro-alpha-	2701-86-2	#####	NA 114	Insecticide	Organophosphorus
(chloromethylene)benzyl	2701-00-2	,	NA 110	Insecticide	Organophosphorus
diethyl phosphate					
2,5-dichloro-alpha-	5723-62-6	#####	NA 116	Insecticide	01
(dichloromethylene)benzyl	0725 02 0	""""	INA IIO	msecucide	Organophosphorus
diethyl phosphate		}			
Acephate	30560-19-1	#####	1685	Insecticide	Organophosphorus
Acethion	919-54-0	#####	NA 139	Insecticide	Organophosphorus
Acetoxon	2425-25-4	#####	NA 139	Insecticide,	Organophosphorus
		]	1112135	Breakdown	Organophosphorus
		1	·	product	
Akton	1757-18-2	84901	1421	Insecticide	Organophosphorus
Akton, other related	NA 1131	NA 166	91421	Insecticide	Organophosphorus
alpha,alpha-Dithiol bis(O,O-	2782-70-9	#####	NA 150	·N/A	Organophosphorus
dimethyl				1771	Organophosphorus
phosphorodithioate)toluene		Į			
Amidithion	919-76-6	59601	NA 487	Insecticide	Organophosphorus
Amiton	78-53-5	57302	NA 473	Insecticide	Organophosphorus
Amiton oxalate	3734-97-2	57301	NA 472	Insecticide	Organophosphorus
Anilofos	64249-01-0	NA 202	NA 201	Insecticide	Organophosphorus
Athidathion	19691-80-6	#####	NA 141	Insecticide	Organophosphorus
Azamethiphos	35575-96-3	######	NA 111	Insecticide	Organophosphorus
Azethion	72348-92-6	#####	NA 139	Insecticide	Organophosphorus
Azinphos-ethyl	2642-71-9	58002	4053	Insecticide	Organophosphorus
Azinphos-methyl	86-50-0	58001	314	Insecticide	Organophosphorus
Azinphos-methyl oxygen	NA 1057	NA 157	4054	Breakdown	Organophosphorus
analog				product	
Azothoate	5834-96-8	#####	NA 118	Insecticide	Organophosphorus
Bensulide	741-58-2	9801	70	Herbicide	Organophosphorus
Bomyl	122-10-1	84201	77	Insecticide	Organophosphorus
Bromophos	2104-96-3	8706	NA 106	Insecticide	Organophosphorus
Bromophos-ethyl	4824-78-6	#####	NA 122	Insecticide	Organophosphorus
Butamifos	36335-67-8	NA 202	NA 201	Herbicide	Organophosphorus
Butathiofos	90338-20-8	#####	2433	Insecticide	Organophosphorus
Butonate	126-22-7	35701	255	N/A	Organophosphorus
Cadusafos	95465-99-9	#####	NA 14	Insecticide	Organophosphorus
Carbophenothion	786-19-6	58102	110	Insecticide	Organophosphorus
Chlorethoxyphos	54593-83-8	#####	5106	Insecticide	Organophosphorus
Chlorfenvinphos	470-90-6	84101	306	Insecticide	Organophosphorus
Chlormephos	24934-91-6	#####	NA 136	Insecticide	Organophosphorus
Chlorphoxim	14816-20-7	NA 207	NA 206	Insecticide	Organophosphorus
Chlorprazophos	36145-08-1	#####	NA 136	Insecticide	Organophosphorus
Chlorpyrifos	2921-88-2	59101	253	Insecticide,	Organophosphorus
Chi.				Nematicide	*k
Chlorpyrifos oxygen analog	5598-15-2	59101	5034	Insecticide,	Organophosphorus

Chemical Name	CAS Number	ITIC EDA DO	104.01	r	·
Chemical Ivanie	CAS Number	U.S. EPA PC Code		<u>Use Type</u>	Chemical Class
	<del> </del>	Code	Code	<u> </u>	
		ļ		Breakdown	
Chlorpyrifos-methyl	5598-13-0	59102	2468	product Insecticide	<del> </del>
Chlorthion	500-28-7	34501	NA 300		Organophosphorus
Chlorthiophos	21923-23-9	#####	2469	Insecticide	Organophosphorus
Chlorthiophos	60238-56-4	#####	NA 919	Insecticide	Organophosphorus
Chlorthiophos II	77503-29-8	#####	NA 919	Insecticide	Organophosphorus
Chlorthiophos III	77503-28-7	#####	NA 917	Insecticide	Organophosphorus
cis-Azodrin	919-44-8	58902		Insecticide	Organophosphorus
cis-Methocrotophos	69632-93-5	#####	NA 482	Insecticide	Organophosphorus
Coumaphos	56-72-4	36501	NA 143	Insecticide	Organophosphorus
Coumaphos, other related	NA 1077	NA 161	165 90165	Insecticide	Organophosphorus
Coumithioate	572-48-5	#####		Insecticide	Organophosphorus
Crotoxyphos	7700-17-6	58801	NA 141	Insecticide	Organophosphorus
Crotoxyphos, other related	NA 1076	NA 161	140	Insecticide	Organophosphorus
Cyanofenphos	13067-93-1	#####	90140	Insecticide	Organophosphorus
Cyanophos	2636-26-2	###### ######	NA 131	Insecticide	Organophosphorus
Cyanthoate	3734-95-0	#####	NA 131	Insecticide	Organophosphorus
Cythioate	115-93-5		NA 131	Insecticide	Organophosphorus
DDVP	62-73-7	59501 84001	NA 486	Insecticide	Organophosphorus
2211	02-73-7	84001	187	Insecticide,	Organophosphorus
				Breakdown	
DDVP, other related	NA 1081	84001	00107	product	
Demephion-O	682-80-4	#####	90187	Insecticide	Organophosphorus
	062-60-4	*******	NA 143	Insecticide,	Organophosphorus
1	ĺ			Breakdown	
Demephion-S	2587-90-8	#####	NA 143	product	
Demeton	8065-48-3	57601	566	Insecticide	Organophosphorus
	0005-48-5	3/001	300	Insecticide,	Organophosphorus
Demeton-O	298-03-3	57602	NA 474	Nematicide	
Demeton-O-methyl	867-27-6	58703	NA 480	Insecticide	Organophosphorus
Demeton-S	126-75-0	57603	NA 475	Insecticide	Organophosphorus
Demeton-S-methyl	919-86-8	NA 200	NA 200	Insecticide	Organophosphorus
Demeton-S-methyl (mixture)	8022-00-2	58701	4063	Insecticide Insecticide	Organophosphorus
Demeton-S-methyl sulfone	17040-19-6	NA 183	NA 182		Organophosphorus
. , , , , , , , , , , , , , , , , , , ,	2,0,0,1,0	142 103	1VA 102	Breakdown	Organophosphorus
1				product, Insecticide	
Dequest 2010 phosphonate	NA 579	NA 105	2496	N/A	
Dialifor	10311-84-9	#####	1799	Insecticide	Organophosphorus
Dialifor, other related	NA 1138	NA 167	91799	Insecticide	Organophosphorus
Diamidafos	1754-58-1	#####	NA 879	Insecticide,	Organophosphorus
		"""""	1111 0/3	Nematicide	Organophosphorus
Diazinon	333-41-5	57801	198	Insecticide	0 1
Diazoxon	962-58-3	NA 156	4064	Breakdown	Organophosphorus
		141130	4004	product	Organophosphorus
Dichlofenthion	97-17-6	28601	614	Insecticide,	<u> </u>
		20001	014	Nematicide	Organophosphorus
Dicrotophos	141-66-2	35201	72	Insecticide	
Dimethoate	60-51-5	35001	216		Organophosphorus
Dimethoate-ethyl	116-01-8	#####	NA 147	Insecticide Insecticide	Organophosphorus
Dioxabenzofos	3811-49-2	#####	NA 112		Organophosphorus
Dioxathion	78-34-2	37801	192	Insecticide	Organophosphorus
Dioxathion, other related	NA 1083	NA 161	90192	Insecticide	Organophosphorus
Diphenprofos	59010-86-5	#####		Insecticide	Organophosphorus
Disulfoton	298-04-4	32501	NA 920	Insecticide	Organophosphorus
	->3-0-1-7	22301	230	Insecticide,	Organophosphorus
		<del></del> L		Nematicide	

Chemical Name	CAS Number	U.S. EPA PO	704 6	T	
<u>Gironinear Prame</u>	CAS IVIIIDEI			<u>Use Type</u>	Chemical Class
Disulfoton sulfone	216746	<u>Code</u> #####	Code		
Disulfoton sulfoxide	216777	#####	NA 140	Insecticide	Organophosphorus
Distriction surrounde	210///	#######	NA 140	Breakdown	Organophosphorus
Ditalimfos	5131-24-8	#####	274 001	product	
DMCP	3309-87-3		NA 891	Fungicide	Organophosphorus
Edifenphos	17109-49-8	#####	NA 119	Insecticide	Organophosphorus
Endothion	319315	#####	1964	Insecticide	Organophosphorus
EPBP	3792-59-4	#####	NA 146	Insecticide	Organophosphorus
EPN		#####	NA 155	Insecticide	Organophosphorus
Ethephon	2104-64-5 16672-87-0	41801	263	Insecticide	Organophosphorus
Description	100/2-8/-0	99801	1626	Plant Growth	Organophosphorus
Ethion	563-12-2	50401	<del></del>	Regulator	
Ethion, O-analog	17356-42-2	58401	268	Insecticide	Organophosphorus
Danon, O-analog	17330-42-2	58402	NA 478	Breakdown	Organophosphorus
Ethoprop	13194-48-4	41104	ļ	product	
Zmoprop	13194-48-4	41101	404	Insecticide,	Organophosphorus
Ethyl (2-	5940.05.0	tr D m m		Nematicide	
mercaptoethyl)carbamate, S-	5840-95-9	#####	NA 149	Insecticide	Organophosphorus
ester of O,O-dimethyl					
phosphorodithioate					
Ethyl hydrogen 1-	21921-96-0			•	
propylphosphonate	21921-90-0	#####	NA 148	N/A	Organophosphorus
Etrimfos	20260 54 7		<del>    _     </del>		
Famphur	38260-54-7	. #####	NA 147	Insecticide	Organophosphorus
Famphur, O-analog	52-85-7	59901	282	Insecticide	Organophosphorus
ampiui, O-analog	960-25-8	59902	NA 491	Breakdown	Organophosphorus
Fenamiphos	22224 00 6	22 24 24 24 24		product	
·	22224-92-6	######	1857	Insecticide,	Organophosphorus
Fenamiphos sulfone	31972-44-8	374 455		Nematicide	
2 champios sanone	319/2-44-8	NA 156	4070	Breakdown	Organophosphorus
Fenamiphos sulfoxide	31972-43-7	374 166		product	
z ommiphos surroxide	319/2-43-/	NA 156	4071	Breakdown	Organophosphorus
Fenitrothion	122-14-5	20000		product	
Fensulfothion	115-90-2	#####	2520	Insecticide	Organophosphorus
T SABATIONNON .	113-90-2	32701	181	Insecticide,	Organophosphorus
Fenthion	55-38-9	52201		Nematicide	
Change	22-38-9	53301	63	Insecticide,	Organophosphorus
Fenthion oxon	3254-63-5			Avicide	
1 onthion oxon	3234-03-3	#####	NA 143	Breakdown	Organophosphorus
Fonofos	944-22-9	41701		product	
Formothion	2540-82-1	41701	254	Insecticide	Organophosphorus
Fosmethilan		#####	NA 143	Insecticide	Organophosphorus
Fospirate	83733-82-8	NA 208	NA 207	Insecticide	Organophosphorus
Fosthiazate	5598-52-7	#####	1856	Insecticide	Organophosphorus
Fosthietan	98886-44-3	#####	NA 109	N/A	Organophosphorus
1 Ostifician	21548-32-3	#####	NA 928	Fumigant,	Organophosphorus
Heptenophos	22560.50.0	20000		Nematicide	
Hexylthiofos	23560-59-0	#####	NA 122	Insecticide	Organophosphorus
Iodofenfos	41495-67-4	#####	NA 132	Insecticide	Organophosphorus
Iprobenfos	18181-70-9	#####	NA 138	Insecticide	Organophosphorus
IPSP	26087-47-8	NA 203	NA 202	Fungicide	Organophosphorus
	1432970	NA 208	NA 207	Insecticide	Organophosphorus
Isazophos	42509-80-8	#####	2282	Insecticide	Organophosphorus
Isazophos-methyl	42509-83-1	#####	NA 136	Insecticide	Organophosphorus
Isocarbophos	24353-61-5	#####	2414	Insecticide	Organophosphorus
Isochlorthion	2463-84-5	34502	NA 301	Insecticide	Organophosphorus
Isofenphos	25311-71-1	#####	2194	Insecticide	Organophosphorus
					-BPAOSPHOTUS

Chemical Name	CAS Number	U.S. EPA PC	CA Cha	TT	
<u>Sasanour Transc</u>	CAS Number	Code		Use Type	Chemical Class
Isothioate	36614-38-7		Code	<u> </u>	
Isoxathion	<del></del>	NA 208	NA 207	Insecticide	Organophosphorus
	18854-01-8	57802	NA 476	Insecticide	Organophosphorus
Leptophos	21609-90-5	#####	1676	Insecticide	Organophosphorus
Leptophos, other related	NA 1135	NA 167	91676	Insecticide	Organophosphorus
Lythidathion	2669-32-1	<del>#####</del>	NA 147	Insecticide	Organophosphorus
Malaoxon	NA 1054	NA 156	4076	Breakdown	Organophosphorus
				product	
<u>Malathion</u>	121-75-5	57701	367	Insecticide	Organophosphorus
Mecarbam	2595-54-2	#####	NA 140	Insecticide	Organophosphorus
Mecarphon	29173-31-7	#####	NA 156	Insecticide	Organophosphorus
Menazon	78-57-9	#####	NA 134	N/A	Organophosphorus
Mephosfolan	950-10-7	#####	NA 131	Insecticide	Organophosphorus
Merphos	150-50-5	74901	293	Defoliant, Plant	Organophosphorus
				Growth	O
				Regulator	
Merphos, other related	NA 1088	NA 162	90293	Defoliant, Plant	Organophosphorus
				Growth	O
				Regulator	
Merpofos	3568-56-7	######	NA 129	N/A	Organophosphorus
Methacrifos	62610-77-9	NA 189	NA 188	Insecticide	Organophosphorus
Methamidophos	10265-92-6	#####	1697	Insecticide,	Organophosphorus
				Breakdown	O 1
				product	
Methidathion	950-37-8	#####	1689	Insecticide	Organophosphorus
Methidathion OA	NA 1065	#####	5040	Insecticide	Organophosphorus
Methyl paraoxon	950-35-6	53502	4083	Breakdown	Organophosphorus
·				product	8
Methyl parathion	298-00-0	53501	394	Insecticide,	Organophosphorus
				Nematicide	8Prospitorus
Methyl parathion, other related	NA 1094	NA 162	90394	Insecticide,	Organophosphorus
				Nematicide	8-mohmoohnorus
Methyl phenkapton	3735-23-7	#####	NA 142	N/A	Organophosphorus
Methyl trithion	953-17-3	58101	3531	Insecticide	Organophosphorus
Methyl-carbofenthion	NA 843	NA 157	4057	Insecticide	Organophosphorus
Mevinphos	7786-34-7	15801	480	Insecticide	Organophosphorus
Mevinphos (stereochemistry	26718-65-0	NA 200	NA 200	Insecticide	Organophosphorus
unspecified)					Organophosphorus
Mevinphos, other related	NA 1103	NA 163	90480	Insecticide	Organophosphorus
Miral	42509-80-8	#####	2689	Insecticide	Organophosphorus
Monocrotophos	6923-22-4	58901	52	Insecticide	Organophosphorus
Morphothion	144-41-2	#####	NA 143	Insecticide	Organophosphorus
Naled	300-76-5	34401	418	Insecticide	Organophosphorus
Naphthalophos	1491-41-4	#####	NA 117	Insecticide	Organophosphorus
O,O,S-Trimethyl	2953-29-9	#####	NA 161	Impurity	Organophosphorus
phosphorodithiate (as impurity)			- 1	impurity	Organophosphorus
O,O-diethyl O-	2668-92-0	#####	NA 138	Insecticide	Organowhambambambam
naphthaloximido		"""""	142 156	msecucide	Organophosphorus
phosphorothioate					
O,O-diethyl phosphoro	226542	NA 338	2508	Insecticide	0
chloridothionate		111330	2500	mechicine	Organophosphorus
O,O-Diethyl S-(4,6-dimethyl-	333-40-4	#####	NA 140	Insecticide	Organia
2-pyrimidinyl)			1411110	mechicide	Organophosphorus
phosphorodithioate	İ		ŀ	-	
O,O-diethyl-O-phenyl	32345-29-2	NA 337	2507	Insecticide	Organisation
phosphorothioate		1122337	2501	TIPECTICIDE	Organophosphorus
O,O-dimethyl S-(2-	2674-91-1	58704	NA 481	Insecticide	Organorhani
			-121 -101	mocrititie	Organophosphorus

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC Type	Chemical Class
(ethylsulfinyl)-1-methylethyl)					
phosphorothioate					
O-(2-chloro-4-nitrophenyl) O-	328-04-1	######	NA 137	N/A	Organophosphorus
isopropyl	ļ				8-morphorus
ethylphosphonothioate					
O-(4-Nitrophenyl) O-phenyl	2665-30-7	#####	NA 158	N/A	Organophosphorus
methylphosphonothioate					
O-ethyl O-(4-	2703-13-1	######	NA 117	N/A	Organophosphorus
(methylthio)phenyl)		:			
methylphosphonothioate		<u> </u>	<del> </del>		
O-Ethyl S-(4-methylphenyl)	333-43-7	#####	NA 149	N/A	Organophosphorus
ethylphosphonodithioate O-Methyl 2-nitro-4-tolyl	26001.00.4	111111111	1 27. 4.55		
isopropylphosphoramidothioate	36001-88-4	#####	NA 157	N/A	Organophosphorus
Omethoate	1113-02-6	35002	2225		
Omemoate	1113-02-0	35002	2285	Insecticide,	Organophosphorus
·		,		Breakdown	1
Oxydemeton-methyl	301-12-2	58702	382	product Insecticide	1 1
Paraoxon	311-45-5	NA 155	4082	Breakdown	Organophosphorus
	311 .3 3	111133	4062	product	Organophosphorus
Parathion	56-38-2	57501	459	Insecticide	Organophosphorus
Parathion	56-38-2	57401	NA 174	Insecticide,	Organophosphorus
				Nematicide	Organophosphorus
Parathion, other related	NA 1099	NA 163	90459	Insecticide,	Organophosphorus
				Nematicide	O I gan ophosphorus
Phenkapton	2275-14-1	· <del>              </del>	NA 139	Insecticide	Organophosphorus
Phenthoate	253180	#####	NA 889	Insecticide	Organophosphorus
Phorate	298-02-2	57201	478	Insecticide,	Organophosphorus
				Nematicide	
Phorate sulfone	249924	NA 155	4084	Breakdown	Organophosphorus
771				product	
Phorate sulfoxide	249892	NA 155	4085	Breakdown	Organophosphorus
Dharatanan	2600 60 0	771 177		product	
Phoratoxon	2600-69-3	NA 155	4086	Breakdown	Organophosphorus
Phoratoxon sulfone	NA 1051	NTA 155	1005	product	
1 noratoxon sunone	NA 1051	NA 155	4087	Breakdown	Organophosphorus
Phoratoxon sulfoxide	249955	NA 155	4000	product	
	249933	IVA 133	4088	Breakdown	Organophosphorus
Phosalone	2310-17-0	97701	479	product Insecticide	0
Phosalone OA	NA 1066	97701	5041	Insecticide,	Organophosphorus
	11121000	37701	5041	Breakdown	Organophosphorus
				product	
Phosfolan	947-02-4	#####	NA 131	N/A	Organophosphorus
Phosmet	732-11-6	59201	335	Insecticide	Organophosphorus
Phosmetoxon	3735-33-9	59202	4089	Breakdown	Organophosphorus
				product	O'Banophosphorus
Phosnichlor	5826-76-6	34503	NA 302	Insecticide	Organophosphorus
Phosphamidon	13171-21-6	18201	482	Insecticide	Organophosphorus
Phosphamidon, other related	NA 1104	NA 163	90482	Insecticide	Organophosphorus
Phostebupirim	96182-53-5	#####	5122	Insecticide	Organophosphorus
Phoxim	14816-18-3	#####	NA 159	Insecticide	Organophosphorus
Phoxim-methyl	14816-16-1	#####	NA 159	Insecticide	Organophosphorus
Piperophos	24151-93-7	NA 219	NA 218	Herbicide	Organophosphorus
Pirimiphos ethyl	23505-41-1	#####	2781	Insecticide	Organophosphorus
Pirimiphos ethyl, O-analog	36378-61-7	#####	NA 899	Breakdown	Organophosphorus

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Ci
		Code	Code	Ose 1 ype	Chemical Class
		2222	,5000	product	
Pirimiphos-methyl	29232-93-7	#####	2217	Insecticide	Organophosphorus
Primidophos	39247-96-6	<del>}        </del>	NA 127	Insecticide	Organophosphorus
Profenofos	41198-08-7	#####	2042	Insecticide	Organophosphorus
Propaphos	7292-16-2	NA 201	NA 201	Insecticide	Organophosphorus
Propetamphos	31218-83-4	#####	2122	Insecticide	Organophosphorus
Propoxon	5823-13-2	. ######	NA 139	Insecticide	Organophosphorus
Prothidathion	20276-83-9	######	NA 141	Insecticide	Organophosphorus
Prothiofos	34643-46-4	######	4094	Insecticide	Organophosphorus
Prothion	5969-94-8	#####	NA 139	Insecticide	Organophosphorus
Prothoate	2275-18-5	#####	NA 140	Insecticide	Organophosphorus
Pyraclofos	77458-01-6	NA 183	NA 182	Insecticide	Organophosphorus
Pyrazophos	13457-18-6	#####	NA 149	Fungicide	Organophosphorus
Pyridiphenthion	119-12-0	53302	NA 450	Insecticide	Organophosphorus
Quinalphos	13593-03-8	######	NA 145	Insecticide	Organophosphorus
Quinalphos-methyl	13593-08-3	#####	NA 145	Insecticide	Organophosphorus
Quinitofos	1776-83-6	#####	NA 149	Insecticide	Organophosphorus
Quinothion	22439-40-3	#####	NA 140	Insecticide	Organophosphorus
Ronnel	299-84-3	58301	517	Insecticide	Organophosphorus
S,S,S-tributyl phosphorotrithioate	78-48-8	74801	190	Defoliant, Plant	Organophosphorus
phosphorodianoate	:			Growth	
S-(1,1-Dimethylethyl) O-ethyl	83318-76-7	#####	NA 104	Regulator	
ethylphosphonothioate	65516-70-7	<del>"""""</del>	NA 104	Insecticide	Organophosphorus
S-(4-(1,1-	329-21-5	#####	NA 143	Insecticide	O11
dimethylethyl)phenyl) O-ethyl	327-21-Ş	numm	IVA 145	insecticide	Organophosphorus
ethylphosphonodithioate					
Sophamide	37032-15-8	#####	NA 144	Insecticide	Organophosphorus
Sulfotep	3689-24-5	79501	558	Insecticide	Organophosphorus
Sulfotep, other related	NA 1111	NA 164	90558	Insecticide	Organophosphorus
Sulprofos	35400-43-2	#####	2006	Insecticide	Organophosphorus
Sulprofos oxon	38527-90-1	#####	NA 125	Breakdown	Organophosphorus
				product	
Temephos	3383-96-8	59001	1	Insecticide	Organophosphorus
Temephos sulfoxide	17210-55-8	59002	NA 483	Breakdown	Organophosphorus
TEND	107.40.0			product	
TEPP	107-49-3	79601	577	Insecticide	Organophosphorus
Terbufos	13071-79-9	######	2925	Insecticide,	Organophosphorus
Terbufos sulfone	56070-16-7		NTA 140	Nematicide	
l croutos surronc	30070-10-7	#####	NA 140	Breakdown	Organophosphorus
Terbufos sulfoxide	10548-10-4	#####	NA 140	product Breakdown	
	10540-10-4	n n n n n n n n n n n n n n n n n n n	1VA 140	product	Organophosphorus
Tetrachlorvinphos	22248-79-9	83702	305	Insecticide	Organonhoonhoon
Tetrachlorvinphos	961-11-5	83701	NA 34	Insecticide	Organophosphorus Organophosphorus
Thiometon	640-15-3	#####	NA 149	Insecticide	Organophosphorus  Organophosphorus
Thionazin	297-97-2	32401	2939	Insecticide	Organophosphorus
Thionazin, O-analog	7359-55-9	32402	NA 297	Insecticide,	Organophosphorus
			<b> ·</b>	Breakdown	o-Perrobinoshitoring
				product	Ì
Tolclofos-methyl	57018-04-9	#####	NA 106	Fungicide	Organophosphorus
Triazophos	24017-47-8	#####	3543	Insecticide	Organophosphorus
Trichlorfon	52-68-6	57901	88	Insecticide	Organophosphorus
Trichloronat	327-98-0	######	5001	Insecticide	Organophosphorus
				msconeide	Or Samobinospinor in
Vamidothion 3-iodo-2-propynyl butyl	2275-23-2 55406-53-6	##### #####	3544 1938	Insecticide Fungicide,	Organophosphorus

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u>Cholmear I vanio</u>	CAS IVanioci	Code	Code	Ose Type	Chemical Class
carbamate			<u> </u>	Wood	
<b></b>				Preservative	
6-Methyl-2-propyl-4-	2532-49-2	#####	NA 157	N/A	Other Carbamate
pyrimidinyl dimethylcarbamate			111111	1771	Other Carbannate
Alanycarb	83130-01-2	NA 175	NA 47	Insecticide	Other Carbamate
Asulam	3337-71-1	#####	5076	Herbicide	Other Carbamate
Asulam, sodium salt	2302-17-2	#####	1746	Herbicide	Other Carbamate
Benfuracarb	82560-54-1	#####	NA 48	Insecticide	Other Carbamate
Chlorbufam	1967-16-4	#####	NA 157	Herbicide	Other Carbamate
Chlorprocarb	23121-99-5	#####	NA 136	Herbicide	Other Carbamate
Chlorpropham	101-21-3	18301	141	Herbicide,	Other Carbamate
			, - : -	Plant Growth	Other Carbannate
		į		Regulator	
Diethofencarb	87130-20-9	NA 184	NA 183	Fungicide	Other Carbamate
Dimetan	122-15-6	#####	NA 112	Insecticide	Other Carbamate
Dimetilan	644-64-4	90101	NA 844	Insecticide	Other Carbamate
Fenoxycarb	79127-80-3	#####	2283	Insecticide,	Other Carbamate
· •				Insect Growth	O LINCI CLIT D'ATTIALC
				Regulator	
Fenoxycarb	72490-01-8	NA 228	NA 228	Insecticide,	Other Carbamate
1				Insect Growth	O LITOR CUIT DUTTILLO
				Regulator	
Isolan	119-38-0	#####	NA 155	Insecticide	Other Carbamate
Karbutilate	4849-32-5	97401	691	Herbicide	Other Carbamate
Mecarbinizid	27386-64-7	#####	NA 157	N/A	Other Carbamate
Nitrilacarb	29672-19-3	#####	NA 129	Insecticide	Other Carbamate
Potassium asulam	14089-43-1	#####	NA 893	Herbicide	Other Carbamate
Propamocarb	24579-73-5	######	2147	Fungicide	Other Carbamate
Propamocarb hydrochloride	25606-41-1	#####	4022	Fungicide	Other Carbamate
Propham	122-42-9	47601	339	Herbicide,	Other Carbamate
_				Plant Growth	
				Regulator	
Pyrolan	87-47-8	#####	NA 157	Insecticide	Other Carbamate
Swep	1918-18-9	84601	4098	N/A	Other Carbamate
Chlorfenapyr	122453-73-0	######	3938	Insecticide	Pyrazole
Pyrazoxyfen	71561-11-0	NA 189	NA 189	Herbicide	Pyrazole
Tebufenpyrad	119168-77-3	90102	NA 845	Insecticide	Pyrazole
(+-)-cis,trans-Deltamethrin	120710-23-8	######	NA 120	Insecticide	Pyrethroid
(+-)-cis-Permethrin	52341-33-0	#####	NA 120	Insecticide	Pyrethroid
(S)-Cypermethrin	66841-24-5	#####	3866	Insecticide	Pyrethroid
6-chloropiperonyl 2,2-	70-43-9	######	NA 124	Insecticide	Pyrethroid
dimethyl-3-(2-					
methylpropenyl)cyclopropanec		İ			
arboxylate					
Acrinathrin	101007-06-1	#####	NA 4	Insecticide	Pyrethroid
Allethrin	584-79-2	4001	12	Insecticide	Pyrethroid
Allethrin Coil	NA 1163	4002	NA 163	Insecticide	Pyrethroid
Allethrin, other related	NA 1070	NA 160	90012	Insecticide	Pyrethroid
B-fenvalerate	66267-77-4	#####	NA 903	Insecticide	Pyrethroid
Beta-cyfluthrin	68359-37-5	#####	3956	Insecticide	Pyrethroid
Bifenthrin	82657-04-3	#####	2300	Insecticide	Pyrethroid
Bioresmethrin	28434-01-7	97802	NA 855	Insecticide	Pyrethroid
Cismethrin	35764-59-1	97804	NA 857	Insecticide	Pyrethroid
Cyclethrin	97-11-0	4052	NA 69	N/A	Pyrethroid
Cycloprothrin	63935-38-6	NA 204	NA 203	Insecticide	Pyrethroid
Cyfluthrin	68359-37-5	#####	2223	Insecticide	Pyrethroid

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	TT- 07	
	<u> </u>	Code	Code	Use Type	Chemical Class
Cyhalothrin	68085-85-8	#####	NA 104	Insecticide	D 1
Cypermethrin (stereochemistry	52315-07-8	#####	NA 172	Insecticide	Pyrethroid
unspecified)		"""" '	111111	msecucide	Pyrethroid
Cypermethrin, alpha	67375-30-8	#####	NA 120	Insecticide	Pyrethroid
Cypermethrin, beta	65731-84-2	#####	2171	Insecticide	Pyrethroid
Cypermethrin, theta	71697-59-1	NA 200	NA 199	Insecticide	Pyrethroid
Cyphenothrin	39515-40-7	#####	3885	Insecticide	Pyrethroid
D-Allethrin	42534-61-2	4005	2293	Insecticide	Pyrethroid
D-allethrin, other related	NA 1151	NA 168	92293	Insecticide	Pyrethroid
D-cis-trans Allethrin	42534-61-2	4005	NA 163	Insecticide	Pyrethroid
D-trans Allethrin	28057-48-9	4003	4038	Insecticide	Pyrethroid
D-trans allethrin, other related	NA 1154	NA 173	94038	Insecticide	Pyrethroid
Deltamethrin	52918-63-5	97805	3010	Insecticide	Pyrethroid
Deltamethrin (isomer	52820-00-5	#####	NA 120	Insecticide	Pyrethroid
unspecified)					1 yremold
Deltamethrin, other related	NA 1153	NA 169	93010	Insecticide	Pyrethroid
Dimethrin	70-38-2	34101	NA 299	Insecticide	Pyrethroid
Empenthrin [(1R)isomers]	54406-48-3	NA 202	NA 202	Insecticide	Pyrethroid
Esbiothrin	28434-00-6	4004 ·	4040	Insecticide	Pyrethroid
Esfenvalerate	66230-04-4	#####	2321	Insecticide	Pyrethroid
Fenpropathrin	39515-41-8	#####	2234	Insecticide	Pyrethroid
Fenpropathrin	64257-84-7	NA 201	NA 200	Insecticide	Pyrethroid
Fenvalerate	51630-58-1	#####	1963	Insecticide	Pyrethroid
Fenvalerate	51630-58-1	#####	NA 173	Insecticide	Pyrethroid
Fenvalerate, other related	NA 1143	NA 167	91963	Insecticide	Pyrethroid
Flucythrinate	70124-77-5	#####	2168	Insecticide	Pyrethroid
Flumethrin	69770-45-2	NA 219	NA 218	Insecticide	Pyrethroid
Fluvalinate (stereochemistry	69409-94-5	<del>                 </del>	2195	Insecticide	Pyrethroid
unspecified)					•
Furethrin	17080-02-3	#####	NA 150	Insecticide	Pyrethroid
Halfenprox	111872-58-3	NA 189	NA 188	Insecticide	Pyrethroid
Imiprothrin	72963-72-5	4006	5327	Insecticide	Pyrethroid
Lambda cyhalothrin	91465-08-6	#####	2297	Insecticide	Pyrethroid
Permethrin	52645-53-1	#####	2008	Insecticide	Pyrethroid
Permethrin, other related	NA 1146	NA 168	92008	Insecticide	Pyrethroid
Phenothrin	26002-80-2	69005	2093	Insecticide	Pyrethroid
Phenothrin, other related	NA 1147	NA 168	92093	Insecticide	Pyrethroid
Prallethrin	23031-36-9	#####	3985	Insecticide	Pyrethroid
Pyrethrins and pyrethroids,	68648-44-2	69007	NA 611	Insecticide	Pyrethroid
manufg. Residues					- )
Resmethrin	10453-86-8	97801	2119	Insecticide	Pyrethroid
Resmethrin, other related	NA 1148	NA 168	92119	Insecticide	Pyrethroid
S-Bioallethrin	28434-00-6	4004	4039	Insecticide	Pyrethroid
Tau-fluvalinate	102851-06-9	NA 201	NA 200	Insecticide	Pyrethroid
Tefluthrin	79538-32-2	<del>}}}}}</del>	3839	Insecticide	Pyrethroid
Tetramethrin	7696-12-0	69003	1695	Insecticide	Pyrethroid
Tetramethrin, other related	NA 1137	NA 167	91695	Insecticide	Pyrethroid
Tralomethrin	66841-25-6	#####	2329	Insecticide	Pyrethroid
Transfluthrin	118712-89-3	NA 206	NA 205	Insecticide	Pyrethroid
(Poly-N-acetylD-	9012-76-4	#####	2792	. Plant Growth	Animal derived
glucosamine)-protein	1		-	Regulator,	
			i	Fungicide	
Ammoniated caseinate	9005-42-9	NA 539	3579	N/A	Animal derived
Androsterone	53-41-8	######	NA 101	Deer Repellent	Animal derived

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	II.	T 61
	OZIO INUMBEL	Code	Code	Use Type	Chemical Class
Animal gland extracts	NA 63	NA 118	1345	Rodenticide	A
Animal glue	NA 792	NA 147	3581	Rodenticide,	Animal derived
3		142147	3361	Bird Repellent	Animal derived
Beef fat	NA 637	NA 117	3585	Bait	Animal derived
Bone meal	NA 584	NA 106	3589	N/A	Animal derived
Bone oil	8001-85-2	10801	78	Dog and Cat	Animal derived  Animal derived
	1		, ,	Repellent	Animai derived
Calcium salts of casein and soy	NA 665	NA 123	1252	N/A	Animal derived
Casein	9000-71-9	NA 152	1075	N/A	Animal derived
Cat food	NA 796	NA 147	3602	Bait	Animal derived
Cheese	NA 222	NA 429	3604	Bait	Animal derived
Chitin	1398-61-4	#####	NA 109	Nematicide	Animal derived
Clam shells	NA 797	NA 147	3611	N/A	Animal derived
Cod liver oil	8001-69-2	31609	2250	N/A	Animal derived
Dried blood	68911-49-9	611	1315	Dog and Cat	Animal derived
				Repellent	Ammai derived
Dry milk solids	NA 149	NA 284	1976	N/A	Animal derived
Egg shells	NA 141	NA 275	3649	N/A	Animal derived
Eggs	NA 802	NA 148	3648	N/A	Animal derived
Elanco empty gelatin capsules	NA 142	NA 276	2543	N/A	Animal derived
Fish meal	NA 123	NA 237	2571	N/A	Animal derived
Fish oil	8016-13-5	#####	3658	Adjuvant, Deer	Animal derived
į,			,	Repellent, Dog	111111111111111111111111111111111111111
1				and Cat	
				Repellent	
Game repellent	NA 1490	NA 221	NA 221	Deer Repellent	Animal derived
Gardol	137-16-6	174	3210	Dog and Cat	Animal derived
Gelatin	0000 70 0	371		Repellent	
	9000-70-8	NA 222	3660	Insecticide	Animal derived
Gelatin capsules, R.P. Scherer	NA 574	NA 104	2577	N/A	Animal derived
Hydrolyzed proteins	NA 1355	NA 192	NA 192	Bait	Animal derived
Jaguar Lard	NA 76	NA 147	2146	Deer Repellent	Animal derived
Lion waste	61789-99-9	NA 143	3675	N/A	Animal derived
3.5	NA 571	NA 103	1301	Deer Repellent	Animal derived
Meat meal	NA 53	NA 100	3681	Bait	Animal derived
Meat mear	NA 570	#####	3682	Bait, Deer	Animal derived
·				Repellent, Dog	
	Į			and Cat	
Meat scraps	NA 54	NA 101	3683	Repellent Bait	
Meat stock, Hormel #6	NA 618	NA 112	2670		Animal derived
Milk	8049-98-7	NA 64	3564	Bait N/A	Animal derived
Nutria meat	NA 24	NA 36	3702	Bait	Animal derived
Oil of mink	NA 10	NA 14	1961		Animal derived
Oyster shells	NA 808	NA 149	3714	N/A N/A	Animal derived
Pig tasties	NA 594	NA 107	3730		Animal derived
Powdered gelatin	NA 760	NA 137	2827	N/A	Animal derived
Putrescent whole egg solids	51609-52-0	######	1935	N/A	Animal derived
	3 2 0 0 5 - 3 2 - 0	un <del>nun</del>	1223	Insecticide, Deer Repellent	Animal derived
Shellac	9000-59-3	NA 109	3378	N/A	Animal Janiara
Silkworm pupae	NA 464	NA 828	2855	N/A	Animal derived
Sodium caseinate	9005-46-3	NA 836	3389	N/A N/A	Animal derived
Sperm oil	8002-24-2	99701	NA 868	N/A N/A	Animal derived
Whey	NA 560	NA 101	3825	N/A N/A	Animal derived
		112101	2023	IV/A	Animal derived

Wool   NA 566   NA 102   3826   N/A   Animal derived   Code   C	Chemical Name	CAS Number	II C EDA DO	CA OL	T	
Wool   NA 566   NA 102   3826   N/A   Animal derived	<u>Gaennear Traine</u>	CAS Number			Use Type	Chemical Class
(+)-alpha-Cubebene (17699-14-8 ##### NA 130 Insecticide Botanical (78)-Hydroprene (5773-18-8 ##### NA 130 Insecticide Botanical (78)-Hydroprene (5773-18-8 ##### NA 130 Insecticide Botanical (78)-Hydroprene (5773-18-8 ##### NA 130 Insecticide Botanical Naphthalene (NAD)  1-naphthaleneacetamide (NAD)	Wool	NA 566			DT/A	
Critical Content   Critical Co						
1-naphthaleneacetamide (NAD)						
1-naphthaleneacetamide (NAD)	(-),,	05755 10-0	111111111111111111111111111111111111111	1NA 107		Botanical
Company	1-naphthaleneacetamide	86-86-2	56001	422		Deteriori
2-methoxy-5-nitro phenol, sodium salt   2-Naphthyloxyacetamide   NA 1401   NA 197   NA 196   Plant Growth Regulator, Herbicide   Botanical   Botanical   3,7-dimethyl-6-octanol   106-22-9   NA 129   2140   Insect Repellent   Botanical   Botanical   Botanical   Botanical   3,7-dimethyl-6-octanol   150-84-5   NA 307   2522   Insect Repellent   Botanical   Acacia   2591766   NA 696   2346   N/A   Botanical   Alfalfa   NA 635   NA 116   3569   N/A   Botanical   Alfalfa   NA 635   NA 116   3569   N/A   Botanical   Alfalfa   MA 635   NA 116   3569   N/A   Botanical   Alfalfa   MA 635   NA 116   3570   N/A   Botanical   Almond hulls   NA 280   NA 547   3577   N/A   Botanical   Almond shells   NA 280   NA 547   3577   N/A   Botanical   Alpha-pinene polymer   31393-98-3   NA 153   3996   Insecticide   Botanical   Avermectin   71751-41-2   #####   1518   Dog and Cat   Botanical   Avermectin   1151-12   #####   2254   Insecticide   Botanical   Avermectin   11141-17-6   #####   2254   Insecticide   Botanical   Azadirachtin   11141-17-6   #####   2328   Insecticide   Botanical   Botanical   Balsam peru   NA 660   NA 122   1146   N/A   Botanical   Betanical   Betanical   Balsam peru   NA 660   NA 122   1146   N/A   Botanical   Betanical   Botanical		50001	722			
Company					Regulator	
Sodium salt	2-methoxy-5-nitro phenol,	67233-85-6	#####	5117	Plant Growth	
2-Naphthyloxyacetamide		ļ			_	Botanicai
Regulator, Herbicide   Acadic derivati, Botanical	2-Naphthyloxyacetamide	NA 1401	NA 197	NA 196		Nanhthalene acetic
3,7-dimethyl-6-octanol   106-22-9   NA 129   2140   Insect   Botanical						
3,7-dimethyl-6-octanol   106-22-9   NA 129   2140   Insect Repellent   Repel						
Repellent   Solution	3,7-dimethyl-6-octanol	106-22-9	NA 129	2140	Insect	
Acacia   2591766   NA 696   2346   N/A   Botanical	271				Repellent	
Acacia   2591766   NA 696   2346   N/A   Botanical	· -	150-84-5	NA 307	2522	Insect	Botanical
Alfalfa		0501766				
Alfalfa meal						Botanical
Algin   9005-38-3   NA 715   3571   N/A   Botanical						Botanical
Almond hulls						Botanical
Almond shells						Botanical
Alpha-ionone   127-41-3						Botanical
Alpha-pinene polymer   31393-98-3   NA 153   3996   Insecticide   Botanical					N/A	Botanical
Alpha-pinene polymer         31393-98-3         NA 153         3996         Insecticide         Botanical           Amycol potato alpha starch         NA 272         NA 527         2387         N/A         Botanical           Apple pomace         NA 262         NA 517         3582         N/A         Botanical           Avermectin         71751-41-2         #####         2254         Insecticide         Botanical           Avermectin, other related         NA 1156         NA 174         92254         Insecticide         Botanical           Azadirachtin         11141-17-6         #####         NA 989         Insecticide, Nematicide         Botanical           Azadirachtin B         95507-03-2         ######         NA 989         Insecticide         Botanical           Balsam peru         NA 660         NA 122         1146         N/A         Botanical           Beswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Best powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5	Alpha-ionone	127-41-3	######	1518		Botanical
Amycol potato alpha starch         NA 272         NA 527         2387         N/A         Botanical           Apple pomace         NA 262         NA 517         3582         N/A         Botanical           Avermectin         71751-41-2         #####         2254         Insecticide         Botanical           Avermectin, other related         NA 1156         NA 174         92254         Insecticide         Botanical           Azadirachtin         11141-17-6         #####         2328         Insecticide, Nematicide         Botanical           Azadirachtin B         95507-03-2         #####         NA 989         Insecticide         Botanical           Balsam peru         NA 660         NA 122         1146         N/A         Botanical           Beeswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117	Almha minana a l	21202 22 2				
Apple pomace         NA 262         NA 517         3582         N/A         Botanical           Avermectin         71751-41-2         #####         2254         Insecticide         Botanical           Avermectin B1         65195-55-3         #####         NA 165         Insecticide         Botanical           Avermectin, other related         NA 1156         NA 174         92254         Insecticide         Botanical           Azadirachtin         11141-17-6         #####         2328         Insecticide, Nematicide         Botanical           Azadirachtin B         95507-03-2         #####         NA 989         Insecticide         Botanical           Balsam peru         NA 660         NA 122         1146         N/A         Botanical           Beseswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117						Botanical
Avermectin         71751-41-2         ######         2254         Insecticide         Botanical           Avermectin B1         65195-55-3         #####         NA 165         Insecticide         Botanical           Avermectin, other related         NA 1156         NA 174         92254         Insecticide         Botanical           Azadirachtin         11141-17-6         #####         2328         Insecticide, Botanical         Botanical           Azadirachtin B         95507-03-2         #####         NA 989         Insecticide         Botanical           Balsam peru         NA 660         NA 122         1146         N/A         Botanical           Beswax (yellow and white)         NA 873         NA 160         5138         N/A         Botanical           Bees powder         NA 245         NA 494         3586         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Buffalo gourd root powder         NA 238         NA 475						Botanical
Avermectin B1   65195-55-3   #####   NA 165   Insecticide   Botanical						Botanical
Avermectin, other related NA 1156 NA 174 92254 Insecticide Botanical Azadirachtin 11141-17-6 ##### 2328 Insecticide, Nematicide Azadirachtin B 95507-03-2 ###### NA 989 Insecticide Botanical Balsam peru NA 660 NA 122 1146 N/A Botanical Barley straw NA 873 NA 160 5138 N/A Botanical Beeswax (yellow and white) NA 245 NA 494 3586 N/A Botanical Beet powder NA 246 NA 495 3587 N/A Botanical Beta-caryophyllene 87-44-5 NA 439 2188 N/A Botanical Beta-pinene polymer 68240-09-5 NA 153 3998 Insecticide Botanical Bran NA 638 NA 117 3590 N/A Botanical Brad crumbs NA 793 NA 147 3591 Bait Botanical Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Cardboard NA 384 NA 105 Insecticide Botanical Cardboard NA 385 NA 105 Insecticide Botanical Cardboard NA 386 NA 105 Insecticide Botanical					Insecticide	Botanical
Azadirachtin 11141-17-6 ###### 2328 Insecticide, Nematicide  Azadirachtin B 95507-03-2 ###### NA 989 Insecticide Botanical  Balsam peru NA 660 NA 122 1146 N/A Botanical  Barley straw NA 873 NA 160 5138 N/A Botanical  Beeswax (yellow and white) NA 245 NA 494 3586 N/A Botanical  Beet powder NA 246 NA 495 3587 N/A Botanical  Beta-caryophyllene 87-44-5 NA 439 2188 N/A Botanical  Beta-pinene polymer 68240-09-5 NA 153 3998 Insecticide Botanical  Bran NA 638 NA 117 3590 N/A Botanical  Bread crumbs NA 793 NA 147 3591 Bait Botanical  Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical  Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical  Canary seed NA 583 NA 105 3597 Bait Botanical  Cardboard NA 705 NA 147 3600 NA 1470 Insecticide Botanical					Insecticide	Botanical
Azadirachtin B. 95507-03-2 ##### NA 989 Insecticide Botanical Balsam peru NA 660 NA 122 1146 N/A Botanical Barley straw NA 873 NA 160 5138 N/A Botanical Beeswax (yellow and white) NA 245 NA 494 3586 N/A Botanical Beet powder NA 246 NA 495 3587 N/A Botanical Beta-caryophyllene 87-44-5 NA 439 2188 N/A Botanical Beta-pinene polymer 68240-09-5 NA 153 3998 Insecticide Botanical Bran NA 638 NA 117 3590 N/A Botanical Bread crumbs NA 793 NA 147 3591 Bait Botanical Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Cardboard NA 705 NA 147 Insecticide Botanical						Botanical
Azadirachtin B 95507-03-2 ##### NA 989 Insecticide Botanical Balsam peru NA 660 NA 122 1146 N/A Botanical Barley straw NA 873 NA 160 5138 N/A Botanical Beeswax (yellow and white) NA 245 NA 494 3586 N/A Botanical Beet powder NA 246 NA 495 3587 N/A Botanical Beta-caryophyllene 87-44-5 NA 439 2188 N/A Botanical Beta-pinene polymer 68240-09-5 NA 153 3998 Insecticide Botanical Bran NA 638 NA 117 3590 N/A Botanical Bread crumbs NA 793 NA 147 3591 Bait Botanical Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical	Azadirachtin	11141-17-6	######	2328		Botanical
Balsam peru         NA 660         NA 122         1146         N/A         Botanical           Barley straw         NA 873         NA 160         5138         N/A         Botanical           Beeswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Buffalo gourd root powder         NA 793         NA 147         3591         Bait         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical	Azadirachtin D	05507.02.2		371 477		
Barley straw         NA 873         NA 160         5138         N/A         Botanical           Beeswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						
Beeswax (yellow and white)         NA 245         NA 494         3586         N/A         Botanical           Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						
Beet powder         NA 246         NA 495         3587         N/A         Botanical           Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						Botanical
Beta-caryophyllene         87-44-5         NA 439         2188         N/A         Botanical           Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						
Beta-pinene polymer         68240-09-5         NA 153         3998         Insecticide         Botanical           Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						
Bran         NA 638         NA 117         3590         N/A         Botanical           Bread crumbs         NA 793         NA 147         3591         Bait         Botanical           Buffalo gourd root powder         NA 238         NA 475         3928         N/A         Botanical           Calf's Milk Replacer         NA 1320         NA 177         5741         N/A         Botanical           Canary seed         NA 583         NA 105         3597         Bait         Botanical           Capsicum oleoresin         404-86-4         70701         470         Insecticide         Botanical						
Bread crumbs NA 793 NA 147 3591 Bait Botanical Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical						
Buffalo gourd root powder NA 238 NA 475 3928 N/A Botanical Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical						
Calf's Milk Replacer NA 1320 NA 177 5741 N/A Botanical Canary seed NA 583 NA 105 3597 Bait Botanical Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical						
Canary seed NA 583 NA 105 3597 Bait Botanical Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical						
Capsicum oleoresin 404-86-4 70701 470 Insecticide Botanical						Botanical
Cardboard NA 705 NA 147 2500 Insecticide Botanical						Botanical
Cardooard   NA /95   NA 147   3590   NI/A   Description						Botanical
Comments				3599	N/A	Botanical
Carrageenan 2591943 NA 437 3600 Adjuvant Botanical						Botanical
Carrots NA 226 NA 438 3601 N/A Botanical						
Chlorophyllin 11006-34-1 NA 191 NA 190 Fungicide, Inorganic-Copper,	Cniorophyllin	11006-34-1	NA 191	NA 190		
Cinerin I 25402 06 6 60000 NI 600	Cinarin I	25402.05.5	- (0000			Botanical
Cincia II Botanicai						Botanical
Cippomoldobado 104.55.0 Mario Mario Miseculcide Botanical						
Botanical Botanical	Chinamatuchyde .	104-33-2	40506	2277		Botanical
Repellent,					Repellent,	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Igo Tamo	Observice I OI
	<u>Grio riginoor</u>	Code	Code	Use Type	Chemical Class
			Couc	Fungicide, Dog	<del></del>
			1	and Cat	
				Repellent	
Cinnamon	NA 217	#####	3607	Insecticide	Botanical
cis-Zeatin	NA 1342	NA 191	NA 190	Plant Growth	
		1111151	1472 150	Regulator	Botanical
Citronellal	106-23-0	NA 223	NA 223	Insect	Botanical
	100 20	1 111 223	147, 223	Repellent	Botanicai
Citronellol	106-22-9	NA 306	2139	Insecticide	Botanical
Citrus extract	NA 1457	NA 216	NA 215	N/A	Botanical
Citrus meal	NA 214	NA 407	3608	N/A	
Citrus pectin	NA 215	NA 408	3609	N/A	Botanical
Citrus pulp	NA 216	NA 409	3610	N/A	Botanical
Clarified hydrophobic extract	8002-65-1	25006	3979		Botanical
of neem oil	0002-05-1	23000	39/9	Insecticide	Botanica1
Clarified hydrophobic neem oil	8002-65-1	25007	NA 172	Insecticide	Detailed
Cloves, Crushed	NA 962	#####	2333	Insecticide	Botanical
Coco shell flour	NA 200	NA 392	3617		Botanical
Cocoa	NA 207	NA 398	3613	N/A	Botanical
Cocoa shells	NA 640	NA 117		N/A	Botanical
Coffee grounds	NA 581		3614	N/A	Botanical
Components of etheric oils of		NA 105	3619	N/A	Botanical
plant origin	NA 1360	NA 193	NA 192	Insecticide	Botanical
Cork	NA 798	NTA 147	2600	37/1	
Corn		NA 147	3622	N/A	Botanical
Corn cobs	NA 879	NA 169	5144	Bait	Botanical
Corn flour	NA 193	NA 383	3624	N/A	Botanical
	NA 799	NA 147	3625	N/A	Botanical
Corn gluten meal	66071-96-3	######	2481	Herbicide	Botanical
Corn product, hydrolyzed	NA 710	NA 130	2322	Herbicide	Botanical
Cotton	NA 188	NA 376	3629	N/A	Botanical
Cotton fibre cord	NA 189	NA 377	2482	N/A	Botanica1
Cottonseed flour	12751-36-9	NA 129	2078	N/A	Botanical
Cottonseed meal	NA 190	NA 378	3630	N/A	Botanical
Cracked oats	NA 801	NA 148	3632	Bait	Botanical
Cracked wheat	NA 192	NA 380	3633	Bait	Botanical
Creosote, wood	8021-39-4	25002	NA 202	Wood	Botanical
				Preservative	
Cube extracts	NA 958	71004	756	Insecticide	Botanical
Cytokinin	525-79-1	<del>                 </del>	2082	Plant Growth	Botanical
	***			Regulator	
Cytokinin (as kinetin)	525-79-1	#####	NA 172	Plant Growth	Botanical
				Regulator	
Daphne oil	NA 1354	NA 192	NA 192	Insect	Botanical
				Repellent	
Derris resins other than	NA 1260	71001	NA 172	Insecticide	Botanical
rotenone	771 6 5 5 5				
Desmodium	NA 1560	NA 227	NA 227	Insecticide	Botanical
Digitalis .	71-63-6	97002	NA 850	N/A	Botanical
Digitalis	1339-93-1	97002	NA 851	N/A	Botanical
Dihydroazadirachtin	108189-58-8	#####	3994	Insecticide,	Botanical
77.0				Nematicide	
DMN	571-58-4	55802	5067	Plant Growth	Botanical
Douglas Salasas	- <u> </u>			Regulator	
Douglas fir bark, ground	NA 156	NA 292	3647	N/A	Botanical

Emamectin, benzoate   137512-74-4   #####   4200   Insecticide   Botanical   Brylene glycol ether of pinene   53404-49-2   42101   NA 363   Insecticide   Botanical   Botanical   Pheromone, Fragrance, Dog and Cat   Repellent   Insecticide   Insect   Insect	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Bithylene glycol ether of pinene   53404-49-2   42101   NA 363   Insecticide   Botanical   Pheromone, Botanical   Pheromone, Pragrance, Dog and Cat   Repellent   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insect   Insecticide, Insecticide, Insect   Insect   Insecticide, Insect   Insect					300 2100	Chemical Class
Ethylene glycol ether of pinene   53404-49-2   42101   NA 363   Insecticide   Botanical   Pheromone, Pragrance, Dog and Cat   Repellent   Insecticide, Insectic		137512-74-4	#####	4020	Insecticide	Botanical
Bugenol   97-53-0   #####   2095   Pheromone, Fragrance, Dog and Cat Repellent, Insecticide, Insect Repellent   Pheromone, Fragrance, Dog and Cat Repellent, Insecticide, Insect Repellent   Pheromone, Pheromo		53404-49-2	42101	NA 363		
Fragrance, Dog and Cat Repellent, Insecticide, Insect Repellent	Eugenol	97-53-0	######	2095		
Repellent   Repe			Í			
Femugreek	1	İ	1	1		
Femugreek					Repellent,	
Fenugreek	]			1		
Fenugreek   NA 121	ł					
Flowers of Chamomile	Fenugreek	NIA 121	NTA 224	2650		
Flowers of Chamomile (Matricaria chamomilla and/or Anthemidis nobilis)						
Matricaria chamomilla and/or Anthemidis nobilis    Folic acid   59-30-3   NA 191   NA 190   Plant Growth Regulator   Botanical	<del></del>			+		
Anthemidis nobilis		NA 1207	######################################	NA 1/3	Insecticide	Botanical
Folic acid   59-30-3   NA 191   NA 190   Plant Growth Regulator   Botanical	Anthemidis nobilis)		!			
Garlic   8000-78-0   #####   2213   Insecticide   Botanical		59-30-3	NA 101	NA 100	Plant Grandh	D
Garlic   Geraniol   106-24-1   #####   2213   Insecticide   Botanical   Fragrance, Insecticide		0,000	141121	147.190	1	Botanical
Geraniol   106-24-1	Garlic	8000-78-0	<del>#####</del>	2213		Rotanica1
Gibberellic acid, 2-butoxyethyl ester   Gibberellin A4 mixt. With gibberellin A7   Regulator   Botanical Regulator   Gibberellin A7   Regulator   Gibberellin A7   Regulator   Botanical Regulator   Gibberellin A7   Regulator   Gibberellins   77-06-5   43801   310   Plant Growth Regulator   Botanical Regulator   Gibberellins, potassium salt   125-67-7   43802   771   Plant Growth Regulator   Botanical Regulator   Gibberellins, potassium salt   125-67-7   43802   771   Plant Growth Regulator   Botanical Regulator   Grape pomace   NA 880   NA 169   5145   N/A   Botanical   Griseofulvin   126-07-8   #####   NA 150   N/A   Botanical   Ground corn cobs   NA 732   NA 133   2583   N/A   Botanical   Ground corn cobs   NA 732   NA 133   2583   N/A   Botanical   Ground rice hulls   NA 108   NA 212   2584   N/A   Botanical   Ground sesame plant   NA 109   #####   2585   Insecticide, Nematicide   Guar gum   9000-30-0   NA 103   3666   Adjuvant   Botanical   Gum resins   9000-75-3   99401   NA 866   Adjuvant   Botanical   Gum tragacanth   9000-65-1   NA 213   3218   Adjuvant   Botanical   Huarts of corn flour   NA 573   NA 104   3667   N/A   Botanical   Humic acid   1415-93-6   NA 134   2597   N/A   Botanical   Regulator   Indole   120-72-9   25000   2614   Insecticide, Botanical   Botanical   Regulator   Indole   120-72-9   25000   2614   Insecticide, Botanical   Botanical   Regulator	Geraniol					
Gibberellic acid, 2-butoxyethyl ester Gibberellic Ad mixt. With gibberellin A4 mixt. With gibberellin A7 Gibberellin A7 Gibberellin A7 Gibberellin A7 Gibberellin A7 Gibberellin A7 Gibberellin A8 Gibberellin A7 Gibberellin A7 Gibberellin A7 Gibberellin A8 Gibberellin A8 Gibberellin A9 Gibber	i					Dotaincai
Gibberellic acid, 2-butoxyethylester   6550-86-3   43803   NA 371   Plant Growth   Regulator   Botanical   Regulator   Gibberellin A4 mixt. With   8030-53-3   #####   NA 952   Plant Growth   Regulator   Regulator   Gibberellins   77-06-5   43801   310   Plant Growth   Regulator   Regulator   Regulator   Gibberellins, potassium salt   125-67-7   43802   771   Plant Growth   Regulator   Regulator   Regulator   Grape pomace   NA 880   NA 169   5145   N/A   Botanical   Regulator   Griscofulvin   126-07-8   #####   NA 150   N/A   Botanical   Ground corn cobs   NA 732   NA 133   2583   N/A   Botanical   Ground rice hulls   NA 108   NA 212   2584   N/A   Botanical   Ground sesame plant   NA 109   #####   2585   Insecticide, Botanical   Ground gum   9000-30-0   NA 103   3666   Adjuvant   Botanical   Gum Thus   2244967   84502   NA 834   Adjuvant   Botanical   Gum tragacanth   9000-65-1   NA 213   3218   Adjuvant   Botanical   Hearts of corn flour   NA 573   NA 104   3667   N/A   Botanical   Hearts of corn flour   NA 573   NA 104   3667   N/A   Botanical   Hearts of corn flour   NA 573   NA 104   3667   N/A   Botanical   Humic acid   1415-93-6   NA 134   2597   N/A   Botanical   Regulator   Reg		•			Insecticide,	
Gibberellic acid, 2-butoxyethyl ester					Insect	
Gibberellic acid, 2-butoxyethylester   6550-86-3   43803   NA 371   Plant Growth Regulator   Botanical   Regulator   Gibberellin A7   Gibberellin A7   The gibberellin A8   The gibberellin A8   The gibberellin A8   The gibberellin A8   The gibberellin A8   The gibberellin A8   The gibberellin A8   The	·			ľ	Repellent, Dog	
Gibberellic acid, 2-butoxyethyl ester				ļ		
Regulator   Regu	Gibberellic acid 2 butarusthul	6550.06.2	42000	371.054		
Gibberellin A4 mixt. With gibberellin A7	1	0220-86-3	43803	NA 371		Botanical
Gibberellin A7		8030-53-3	#####	NIA OCO		
Gibberellins   77-06-5   43801   310   Plant Growth Regulator   Regulator   Regulator   Plant Growth Plant Growth Regulator   Plant Growth Plant Growth Regulator   Plant Growth Plant Growth Plant Growth Regulator   Plant Growth Plant		0030-33-3	<del>1111111111111111111111111111111111111</del>	NA 952		Botanical
Regulator   Regu		77-06-5	43801	310		Deterior1
Grape pomace	·					Botamear
Regulator   Grape pomace   NA 880   NA 169   5145   N/A   Botanical	Gibberellins, potassium salt	125-67-7	43802	771	Plant Growth	Botanical
Grape pomace         NA 880         NA 169         5145         N/A         Botanical           Griseofulvin         126-07-8         #####         NA 150         N/A         Botanical           Ground corn cobs         NA 732         NA 133         2583         N/A         Botanical           Ground oats         NA 804         NA 148         3664         Bait         Botanical           Ground rice hulls         NA 108         NA 212         2584         N/A         Botanical           Ground sesame plant         NA 109         #####         2585         Insecticide, Nematicide         Botanical           Guar gum         9000-30-0         NA 103         3666         Adjuvant         Botanical           Gum resins         9000-75-3         99401         NA 866         Adjuvant         Botanical           Gum Thus         2244967         84502         NA 834         Adjuvant         Botanical           Gum tragacanth         9000-65-1         NA 213         3218         Adjuvant         Botanical           Hearts of corn flour         NA 573         NA 104         3667         N/A         Botanical           Hellebore alkaloids         1399-70-8         2001         NA 65         N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td>Dominour</td>						Dominour
Griseofulvin         126-07-8         #####         NA 150         N/A         Botanical           Ground corn cobs         NA 732         NA 133         2583         N/A         Botanical           Ground oats         NA 804         NA 148         3664         Bait         Botanical           Ground rice hulls         NA 108         NA 212         2584         N/A         Botanical           Ground sesame plant         NA 109         #####         2585         Insecticide, Nematicide         Botanical           Guar gum         9000-30-0         NA 103         3666         Adjuvant         Botanical           Gum resins         9000-75-3         99401         NA 866         Adjuvant         Botanical           Gum Thus         2244967         84502         NA 834         Adjuvant         Botanical           Gum tragacanth         9000-65-1         NA 213         3218         Adjuvant         Botanical           Hearts of corn flour         NA 573         NA 104         3667         N/A         Botanical           Hellebore alkaloids         1399-70-8         2001         NA 65         N/A         Botanical           Hydroprene         41096-46-2         #####         2244         Insect			NA 169	5145		Botanical
Ground oats	······································			NA 150	N/A	
Ground rice hulls				2583	N/A	
Ground sesame plant			~	.3664	Bait	Botanical
Guar gum   9000-30-0   NA 103   3666   Adjuvant   Botanical					N/A	Botanical
Guar gum         9000-30-0         NA 103         3666         Adjuvant         Botanical           Gum resins         9000-75-3         99401         NA 866         Adjuvant         Botanical           Gum Thus         2244967         84502         NA 834         Adjuvant         Botanical           Gum tragacanth         9000-65-1         NA 213         3218         Adjuvant         Botanical           Hearts of corn flour         NA 573         NA 104         3667         N/A         Botanical           Hellebore alkaloids         1399-70-8         2001         NA 65         N/A         Botanical           Humic acid         1415-93-6         NA 134         2597         N/A         Botanical           Hydroprene         41096-46-2         #####         2244         Insect Growth Regulator         Botanical           Indole         120-72-9         25000         2614         Insecticide,         Botanical	Ground sesame plant	NA 109	<del>#####</del>	2585	Insecticide,	Botanical
Gum resins         9000-75-3         99401         NA 866         Adjuvant         Botanical           Gum Thus         2244967         84502         NA 834         Adjuvant         Botanical           Gum tragacanth         9000-65-1         NA 213         3218         Adjuvant         Botanical           Hearts of corn flour         NA 573         NA 104         3667         N/A         Botanical           Hellebore alkaloids         1399-70-8         2001         NA 65         N/A         Botanical           Humic acid         1415-93-6         NA 134         2597         N/A         Botanical           Hydroprene         41096-46-2         #####         2244         Insect Growth Regulator         Botanical           Indole         120-72-9         25000         2614         Insecticide,         Botanical	- Chan and	0000 00 0		<u> </u>		
Gum Thus   2244967   84502   NA 834   Adjuvant   Botanical						
Gum tragacanth         9000-65-1         NA 213         3218         Adjuvant         Botanical           Hearts of corn flour         NA 573         NA 104         3667         N/A         Botanical           Hellebore alkaloids         1399-70-8         2001         NA 65         N/A         Botanical           Humic acid         1415-93-6         NA 134         2597         N/A         Botanical           Hydroprene         41096-46-2         #####         2244         Insect Growth Regulator         Botanical           Indole         120-72-9         25000         2614         Insecticide,         Botanical						
Hearts of corn flour						
Hellebore alkaloids   1399-70-8   2001   NA 65   N/A   Botanical						
Humic acid   1415-93-6   NA 134   2597   N/A   Botanical     Hydroprene   41096-46-2   #####   2244   Insect Growth   Regulator     Indole   120-72-9   25000   2614   Insecticide,   Botanical						
Hydroprene 41096-46-2 ##### 2244 Insect Growth Regulator Botanical Indole 120-72-9 25000 2614 Insecticide, Botanical						
Indole 120-72-9 25000 2614 Insecticide, Botanical						
Indole 120-72-9 25000 2614 Insecticide, Botanical	22, at options	71090-40-2	<del>!! !! !! !!</del>	2244		Botanical
Botanical	Indole	120-72-9	25000	2614		
I I I Insect I		-20 /2-5	25000	2014	Insecticide,	Botanical
Repellent, Dog	1	ļ				]
and Cat	1		ľ			
Repellent						ĺ
Indole-3-acetic acid 87-51-4 ##### NA 106 Plant Growth Botanical	Indole-3-acetic acid	87-51-4	#####	NA 106		Botanical
Regulator				<u>_</u> l	Regulator	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chemical Class
Jasmolin I	4466-14-2	69011	NA 614	Insecticide	Botanical
Jasmolin II	1172-63-0	69012	NA 615	Insecticide	Botanical
Juniper tar oil	2231543	67203	NA 575	Insecticide	Botanical
Juniperus communis ext.	84603-69-0	67212	NA 582	Insecticide	Botanical
Larkspur alkaloid	41710-20-7	2202	NA 66	N/A	Botanical
Leaves of Eucalyptus	NA 1277	#####	NA 174	Insecticide	Botanical
Leaves of Pennyroyal (Mentha	NA 1278	#####	NA 174	Insecticide	Botanical
pulegium)					
Lignin	NA 73	NA 140	2640	N/A	Botanical
Lilacin Linalool	118-34-3	67006	NA 573	N/A	Botanical
Linatoot	78-70-6	#####	2239	Insecticide,	Botanical
•				Insect	
				Repellent,	
Locust bean gum	NA 738	NA 134	2647	Fragrance Adjuvant	Botanical
Medicated feed	NA 644	NA 118	3685	N/A	Botanical Botanical
Millet seed	NA 38	NA 65	3692	Bait	Botanical
Mint Herbs	NA 1280	#####	NA 174	Insecticide	Botanical
Montok pepper	NA 851	NA 158	5012	Insecticide	Botanical
Myrica cerifera, extract	84929-34-0	#####	NA 123	N/A	Botanical
N6-Benzyladenine, mixt. with	53663-71-1	#####	NA 953	Plant Growth	Botanical
Gibberellins A4 and A7		,		Regulator	Dominical
NAA	86-87-3	56002	423	Plant Growth	Naphthalene acetic
				Regulator	acid derivati,
NTA A - 13 - 1 - 4	0100 70 7				Botanical
NAA, ethyl ester	2122-70-5	56008	749	Plant Growth	Naphthalene acetic
·				Regulator	acid derivati,
Nicotine	54-11-5	56702	75	Insecticide	Botanical
Nicotine sulfate	65-30-5	56703	430	Insecticide	Botanical
NOA	120-23-0	55601	432	Plant Growth	Botanical Naphthalene acetic
:		55001	152	Regulator	acid derivati,
	,			7408-12101	Botanical
Nonanoic acid	112-05-0	#####	2739	Herbicide,	Botanical
		·		Fungicide	
Oatmeal	NA 806	NA 149	3704	Bait	Botanical
Oats	NA 16	NA 26	3705	Bait	Botanical
Oil of cedarwood	8000-27-9	40505	1011	Insecticide,	Botanical
Oil of hardwood	NA 675	67001	1.000	Fungicide	
Oil of pine tar	2227495	67201 67002	1639	Microbiocide	Botanical
on or place tai	. 2221493	67002	2246	Insecticide,	Botanical
Oils, cedarwood, Texan	68990-83-0	11524	NA 118	Microbiocide Insecticide,	Deta : 1
,	00000	11324	14A 116	Fungicide	Botanical
Onion extract	NA 1349	NA 192	NA 191	N/A	Botanical
Onions	NA 807	NA 149	3711	N/A	Botanical
Orange pulp	NA 9	NA 13	3712	N/A	Botanical
p-Menthane-3,8-diol	42822-86-6	11550	5255	Insect	Botanical
				Repellent	
Paloja	9000-28-6	#####	NA 880	N/A	Botanical
Papain	9001-73-4	NA 149	3717	Rodenticide	Botanical
Paper	NA 598	NA 107	3718	N/A	Botanical
Paprika	NA 383	NA 692	3719	N/A	Botanical
Peanut butter	NA 373	NA 681	2735	Bait	Botanical
Peanut shells	NA 375	NA 683	3723	N/A	Botanical

Chemical Name	CAS Number	U.S. EPA PO	CA Chen	Use Type	Charita 1 Ct
		Code	Code	Ose Type	Chemical Class
Peanuts	NA 374	NA 682	3533	Bait	Botanical
Peat moss	NA 809	NA 149	3724	N/A	Botanical
Pecan shell flour	NA 376	NA 684	3725	N/A	Botanical
Pectin	9000-69-5	NA 118	3726	N/A	Botanical
Pepper	NA 1348	NA 192	NA 191	Insecticide,	Botanical
				Deer Repellent	
Peppermint	NA 365	NA 668	2332	Insecticide,	Botanical
The state of the s				Fragrance	
Phenylethyl propionate	122-70-3	#####	2094	Fragrance,	Botanical
			ľ	Pheromone,	
ļ	ŀ			Insecticide,	
				Insect	
			Ì	Repellent, Dog and Cat	
•		3	1	Repellent	
Pine oil	2227495	67002	485	Insecticide,	Botanical
		_		Microbiocide	Botanical
Pine soap	NA 1032	NA 127	1993	Insecticide,	Botanical
				Microbiocide	Dominical
Pine tar	8011-48-1	67204	1574	Insecticide,	Botanical
Pine tar oil	01005 50 1	<del></del>		Microbiocide	
Pine tar on	91995-59-4	67205	NA 576	Insecticide,	Botanical
Pinene	80-56-8	67004	210=	Microbiocide	
Pinene	1330-16-1	67004	2187	Insecticide	Botanical
Plant carbolineums	NA 1454	67001	NA 572	Insecticide	Botanical
Tank our comounts	NA 1454	NA 215	NA 215	Insecticide,	Botanical
Plant extract (derived from	NA 917	#####	5453	Fungicide Nematicide	<u> </u>
Quercus falcata, Opuntia	,	mann	3433	Nemancide	Botanical
lindheimeri, Rhus aromatica,					
and Rhizophoria mangle					
tissues)					
Polymerized pinene	NA 399	NA 722	2043	Insecticide	Botanical
Potatoes	NA 436	NA 786	3772	N/A	Botanical
Poultry feed	NA 437	NA 787	3773	N/A	Botanical
Pyrethrin coils	NA 1165	69004	NA 164	Insecticide	Botanical
Pyrethrin I	121-21-1	NA 213	NA 213	Insecticide	Botanical
Pyrethrin II Pyrethrins	121-29-9	69006	NA 610	Insecticide	Botanical
Pyrethrins, other related	8003-34-7	69001	510	Insecticide	Botanical
Pyrethrum narc	NA 1108 NA 1000	NA 164	90510	Insecticide	Botanical
Pyrethrum powder other than	8003-34-7	69000	1461	Insecticide	Botanical
pyrethrins	0003-34-7	69002	NA 164	Insecticide	Botanical
Quassia	NA 450	NA 806	3778	Y	
Quillaja	68990-67-0	NA 150	3779	Insecticide N/A	Botanical
Raisins	NA 647	NA 119	3780	Bait	Botanical
Red dog flour	NA 452	NA 811	3782	N/A	Botanical
Red pepper	NA 107	70703	1094	Dog and Cat	Botanical
			1074	Repellent	Botanical
Red squill glycoside	507-60-8	70801	514	Rodenticide	Botanical
Repellants (by smell) of animal	NA 1373	NA 194	NA 193	Dog and Cat	Botanical
or plant origin	İ			Repellent, Deer	Dotamoal
				Repellent	
Resins, oleo-, capsicum	8023-77-6	70704	NA 665	Insecticide	Botanical
Rice	NA 812	NA 150	3783	N/A	Botanical

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		
Rice hulls	NA 813	NA 150	3784	N/A	Botanical
Rosemary	NA 453	#####	2331	N/A	Botanical
Rosin	9014-63-5	NA 812	3785	N/A	Botanical
Rosin oil	8002-16-2	40508	NA 341	N/A	Botanical
Rosin, partially dimerized	NA 454	NA 813	3786	N/A	Botanical
Rosin, partially hydrogenated	65997-06-0	NA 150	3787	N/A	Botanical
Rotenone	83-79-4	71003	518	Insecticide	Botanical
Rotenone, other related	NA 1109	NA 164	90518	Insecticide	Botanical
Rubber	2594048	NA 814	3788	N/A	Botanical
Ryanodine	NA 1305	71502	NA 175	Insecticide	Botanical
Ryanodine alkaloid	15662-33-6	71501	520	Insecticide	Botanical
Rye flour	NA 648	NA 119	3789	N/A	Botanical
Sabadilla alkaloids	2245180	2201	521	Insecticide	Botanical
Safrole	94-59-7	97901	3376	N/A	Botanical
Saponin	8047-15-2	97004	5033	N/A	Botanical
Sawdust	NA 1306	#####	1316	Adjuvant	Botanical
Scratch feed	NA 649	NA 119	3792	N/A	Botanical
Sea-algae extract	NA 1352	NA 192	NA 191	Plant Growth Regulator,	Botanical
		,		Adjuvant	
Seaweed	NA 814	NA 150	3793	N/A	Botanical
Sodium 2-nitrophenoxide	824-39-5	#####	5118	Plant Growth	Botanical
				Regulator	Botaincai
Sodium 4-nitrophenoxide	824-78-2	#####	5119	Plant Growth	Botanical
Sorghum, grain	NA 478	NA 882	3904	Regulator	
Soy flour	NA 482	NA 886	3809	N/A	Botanical
Soy protein	NA 483	NA 887	3810	N/A	Botanical
Soybean extract	NA 1353	NA 192	NA 191	N/A N/A	Botanical
Soybean hulls	NA 481	NA 885	3807	N/A N/A	Botanical
Soybean meal	NA 817	NA 150	3808	. N/A	Botanical
· Squalane	111-01-3	45503	2887	N/A	Botanical Botanical
Sugarbeet meal	NA 499	NA 910	3813	N/A	
Sunflower seeds	NA 650	NA 119	3815	Bait	Botanical Botanical
Synthetic vegetable gums	9004-64-2	NA 921	1835	Adjuvant	Botanical
Tall oil	8002-26-4	67211	2912	Adjuvant	Botanical
Tall oil acids	61790-12-3	NA 124	1389	Adjuvant	Botanical
Tar oils, from distillation of	8002-29-7	67202	NA 574	Insecticide,	Botanical
wood tar				Herbicide	Botanical
Thuringiensin, calcium technical	23526-02-5	6404	2941	Insecticide	Botanical
Thyme	NA 527	######	2330	Insect	Botanical
<b>y</b>	111027	"""""	2550	Repellent,	Botanical
	;		i	Insecticide	
Tobacco	NA 1011	NA 959	3932	Insecticide	Botanical
Tobacco dust	8037-19-2	56704	NA 469	Insecticide	Botanical
Trimethoxybenzene	135-77-3	40515	5064	Insecticide,	Botanical
				Insect	Boumour
				Repellent, Dog	
				and Cat	
				Repellent	
Tung oil	NA 547	NA 997	3821	N/A	Botanical
Verbenone	1196-01-6	#####	NA 108	Insect	Botanical
			<del></del>	Repellent	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	<u>Code</u>		
Walnut flour	NA 555	NA 101	3823	N/A	Botanical
Walnut shells, ground	NA 556	NA 101	2986	N/A	Botanical
Wheat	NA 819	NA 151	3824	N/A	Botanical
Wheat flour	NA 674	NA 125	1577	N/A	Botanical
White pepper	NA 1311	NA 178	NA 177	Insecticide	Botanical
Wood powder	NA 565	NA 102	1463	N/A	Botanical
Wood rosin	2245031	67208	NA 579	N/A	Botanical
Wood tar	91722-33-7	67206	NA 577	Insecticide	Botanical
Xanthan gum	. 11138-66-2	NA 102	2272	Adjuvant	Botanical
Agrobacterium radiobacter var radiobacter	NA 1435	NA 211	NA 210	Fungicide	Microbial
Agrobacterium radiobacter	NA 693	NA 127	1984	Fungicide	Microbial
Agrobacterium radiobacter (strain K84)	NA 925	######	NA 167	Fungicide	Microbial
Agrobacterium radiobacter strain K1026	NA 921	6474	5477	Fungicide	Microbial
Agrobacterium vitis	NA 1536	NA 224	NA 224	Fungicide	Microbial
Agrotis segetum granulosis virus	NA 1391	NA 196	NA 195	Insecticide	Microbial
Ampelomyces quisqualis	NA 270	NA 525	2385	Fungicide	Microbial
Ampelomyces quisqualis isolate M-10	NA 1217	21007	NA 170	Fungicide	Microbial
Anagrapha falcifera multi- nuclear polyhedrosis virus (AFMNPV)	NA 862	#####	5089	Insecticide	Microbial
Aschersonia aleyrodis	NA 1392	NA 196	NA 195	Insecticide	Microbial
Bacillus cereus strain UW85	NA 1218	######	NA 170	Plant Growth Regulator	Microbial
Bacillus cereus, strain BP01	NA 903	NA 172	5183	Insecticide	Microbial
Bacillus popilliae	NA 257	NA 509	2183	Fungicide	Microbial
Bacillus popilliae and B. lentimorbus	NA 1219	54501	NA 170	Fungicide	Microbial
Bacillus sphaericus	143447-72-7	######	2274	Insecticide	Microbial
Bacillus sphaericus, serotype H-5A5B, strain 2362	143447-72-7	#####	2409	Insecticide	Microbial
Bacillus subtilis GBO3	NA 855	#####	3945	Fungicide	Microbial
Bacillus subtilis isolate B246	NA 1538	NA 225	NA 224	Fungicide	Microbial
Bacillus subtilis MBI 600	NA 864	#####	5120	Fungicide	Microbial
Bacillus subtilis var. Amyloliquefaciens Strain FZB24	NA 1220	6480	NA 170	Fungicide, Plant Growth Regulator	Microbial
Bacillus thuringiensis (berliner)	68038-71-1	6400	86	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Aizawai, GC- 91 protein	68038-71-1	6426	3843	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Aizawai, serotype H-7	68038-71-1	6400	3856	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Israelensis, serotype H-14	68038-71-1	6401	3857	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Kurstaki strain SA-12	68038-71-1	6402	3970	Insecticide	Microbial
Bacillus thuringiensis	68038-71-1	6402	3858	Insecticide	Microbial

Code   Code   Code   Code   Code   Code   Seriotype 3a, 3b   Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2348   Sexinits (Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2348   G8038-71-1   G423   3860   Insecticide   Microbial   Microbial   Sexinit EG2341   Sexinits EG2341   G8038-71-1   G422   3861   Insecticide   Microbial   Microbial   Sexinits EG2424   Sexilits thuringiensis (berliner), subsp. Kurstaki, strain EG2424   Sexilits EG2371   G8038-71-1   G402   3862   Insecticide   Microbial   Microbial   Sexinits EG2424   Sexilits thuringiensis (berliner), subsp. Kurstaki, strain SA-11   Microbial   G8038-71-1   G402   3863   Insecticide   Microbial   Microbial   Sexilits Sexinits SA-11   Sexilits Sexinits SA-11   G400   3863   Insecticide   Microbial   Microbial   Germany   Sexilits Sex	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
(berliner), subsp. Kurstaki, sentiner)		O21D 11mmoor			<u>oso rypo</u>	Chemical Class
Serotype 3a,3b     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG7348     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG73718     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG73718     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG7371     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG7471     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis subsp. Kurstaki strain EG7673     coleopteran active toxin     Bacillus thuringiensis subsp. Kurstaki strain EG7673     coleopteran active toxin     Bacillus thuringiensis subsp. NA 1224     Alzawai     Bacillus thuringiensis subsp. Kurstaki, genetically enginered strain AGRO1 by Agrevo     Bacillus thuringiensis subsp. Kurstaki, genetically enginered strain AGRO2 by Agrevo     Bacillus thuringiensis subsp. NA 1232   ##### NA 171   Insecticide   Microbial     San Diego     Bacillus thuringiensis subsp. NA 1232   ##### NA 171   Insecticide   Microbial     San Diego     Bacillus thuringiensis subsp.     San Diego     Bacillus thuringiensis subsp.     Canada   San Diego     Bacillus thuringiensis subsp.     Canada   San Diego     Bacillus thuringiensis subsp.     Canada   San Diego     Bacillus thuringiensis subsp.     San Diego     Bacillus thuringiensis subsp.     San Diego     Bacillus thuringiensis subsp.     San Diego     San Diego     San Diego     San Diego     San Diego     San Diego     San Diego     San Diego     San Die	(berliner), subsp. Kurstaki,					
(berliner), subsp. Kurstaki, strain EG2248  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (Bosa-71-1)  Bacillus thuringiensis (Bosa-71-1)  Bacillus thuringiensis (Bosa-71-1)  Bacillus thuringiensis (Bosa-71-1)  Bacillus thuringiensis (Bosa-71-1)  Bacillus thuringiensis subsp. (Bosa-71-1)  Bacillus thuringiensis sub. (Bosa-71-1)  Bacillus thuringiensis sub. (Bosa-71-1)  Bacillus thuringiensis sub. (Bosa-71-1)  Bacillus thuringiensis subsp. (Bosa-71-1)  Bacillus thuringiensis subs			1			
(berliner), subsp. Kurstaki, strain EG2248  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morisoni, serotype 8a8b  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis subsp.		68038-71-1	6424	3859	Insecticide	Microbial
Strain BG2348   Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2371   Sacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424   Sacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424   Sacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424   Sacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11   Sacillus thuringiensis (berliner), subsp. Morrisoni, serotype Sabb   Sacillus thuringiensis (berliner), subsp. Morrisoni, serotype Sabb   Sacillus thuringiensis (berliner), subsp. Morrisoni, serotype Sabb   Sacillus thuringiensis (berliner), subsp. Morrisoni, serotype Sabb   Sacillus thuringiensis (berliner), subsp. San Diego   Sacillus thuringiensis subsp. Sacillus thuringiensis sub. Kurstaki strain EG7673   Sacillus thuringiensis sub. Kurstaki strain EG7673   Sacillus thuringiensis sub. Kurstaki strain EG7673   Sacillus thuringiensis subp. Aizawai   Sacillus thuringiensis subp. Aizawai   Sacillus thuringiensis subp. Aizawai   Sacillus thuringiensis subp. Kurstaki, genetically engineered strain AGRO1 by Agrevo   Sacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. San Diego   Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuringiensis subsp. Sacillus thuri	(berliner), subsp. Kurstaki,					2.20100.01
(berliner), subsp. Kurstaki, strain EG2421  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis subsp. (				1		
(berliner), subsp. Kurstaki, strain EG2421  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis sub. (68038-71-1)  Bacillus thuringiensis subsp. (		68038-71-1	6423	3860	Insecticide	Microbial
Strain EG2371   Bacillus thuringiensis (berliner), subsp. Kurstaki, strain EG2424						WHOTODIAI
(berliner), subsp. Kurstaki, strain EG2424     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11     Bacillus thuringiensis (berliner), subsp. Morisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis subsp. (adatadiensis subsp. (						
(berliner), subsp. Kurstaki, strain EG2424     Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11     Bacillus thuringiensis (berliner), subsp. Morisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. Morisoni, serotype 8a8b     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis (berliner), subsp. San Diego     Bacillus thuringiensis subsp. (adatadiensis subsp. (	Bacillus thuringiensis	68038-71-1	6422	3861	Insecticide	Microbial
Strain EG2424   Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11   6402   3862   Insecticide   Microbial		00000 /11	0.22	5001	maconolic	Wilciobiai
Bacillus thuringiensis (berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (berliner), subsp. San Diego  Bacillus thuringiensis (68038-71-1 6400 3864 Insecticide Microbial darstadiensis darstadiensis (berliner), subsp. San Diego  Bacillus thuringiensis sub. (68038-71-1 6404 2410 Insecticide Microbial darstadiensis aclust strain EG7673 coleopteran active toxin  Bacillus thuringiensis sub. (68038-71-1 6447 5049 Insecticide Microbial kurstaki strain EG7673 lepidopteran active toxin  Bacillus thuringiensis subsp. NA 1224 6403 NA 170 Insecticide Microbial Aizawai  Bacillus thuringiensis subsp. (68038-71-1 6402 5004 Insecticide Microbial Microbial Aizawai  Bacillus thuringiensis subsp. (68038-71-1 6402 5004 Insecticide Microbial Microbial Microbial Strain EG7673 lepidopteran active toxin  Bacillus thuringiensis subsp. (68038-71-1 6402 5004 Insecticide Microbial Microbial Microbial Strain EG7673 lepidopteran active toxin  Bacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Strain EG7673 lepidopteran active toxin AGR01 by Agrevo  Bacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Strain EG2215 Macrobial Strain EG7215 Macrobial Strain EG2215 Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis, strain EG2215 Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis Strain EG2215 Bacillus thuringiensis Subspecies Kurstaki strain HDD1, lepidopteran active toxin Bacillus thuringiensis G8038-71-1 6402 5010 Insecticide Microbial Subspecies Kurstaki strain HDD1, lepidopteran active toxin Bacillus thuringiensis G8038-71-1 6402 5010 Insecticide Microbial Microbial Subspecies Kurstaki strain HDD1, lepidopteran active toxin Bacillus thuringiensis G8038-71-1 6403 3988 Insecticide Micr						
(berliner), subsp. Kurstaki, strain SA-11  Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b  Bacillus thuringiensis (68038-71-1 6400 3864 Insecticide Microbial darstadiensis bub. (68038-71-1 6404 2410 Insecticide Microbial darstadiensis bub. Kurstaki strain EG7673 coleopteran active toxin  Bacillus thuringiensis sub. (68038-71-1 6448 5051 Insecticide Microbial Sacillus thuringiensis sub. Kurstaki strain EG7673 coleopteran active toxin  Bacillus thuringiensis sub. (68038-71-1 6447 5049 Insecticide Microbial Sacillus thuringiensis subsp. Aizawai Bacillus thuringiensis subsp. (68038-71-1 6402 5004 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6402 5005 Insecticide Microbial Microbial Sacillus thuringiensis subsp. (68038-71-1 6405 5043 Insecticide Microbial Sacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis Sabspecies Israelensis strain EG2215 Bacillus thuringiensis Sabspecies Israelensis strain EG2215 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiensis Sabspecies Kurstaki strain BMP 123 Bacillus thuringiens		68038-71-1	6402	3862	Insecticide	Microbial
Strain SÅ-1    Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b   Bacillus thuringiensis (berliner), subsp. Morrisoni, serotype 8a8b   Bacillus thuringiensis (berliner), subsp. San Diego   Bacillus thuringiensis (berliner), subsp. San Diego   Bacillus thuringiensis subsp. Kurstaki, strain EG7673 coleopteran active toxin   Bacillus thuringiensis sub. Kurstaki strain EG7673   Line toxin		00050 /1 1	0.102	3002	Hisconolide	Wiciobiai
Bacillus thuringiensis   NA 1481   6400   3863   Insecticide   Microbial						
Cherliner), subsp. Morrisoni, serotype 8a8b   Bacillus thuringiensis (berliner), subsp. San Diego   Bacillus thuringiensis   68038-71-1   6400   3864   Insecticide   Microbial   darstadiensis   68038-71-1   6404   2410   Insecticide   Microbial   darstadiensis   68038-71-1   6404   2410   Insecticide   Microbial		ΝΔ 1481	6400	2962	Ingosticido	Missolial
Serotype 8a8b   Bacillus thuringiensis   68038-71-1   6400   3864   Insecticide   Microbial		1VA 1401	0400	3803	msecucine	Microbiai
Bacillus thuringiensis (berliner), subsp. San Diego   Bacillus thuringiensis darstadiensis				1		
Cherliner), subsp. San Diego		68038 71 1	6400	2964	Tunnatini da	76:1:1
Bacillus thuringiensis sub.  Bacillus thuringiensis sub. Kurstaki strain EG7673 coleopteran active toxin Bacillus thuringiensis sub. Kurstaki strain EG7673 lepidopteran active toxin Bacillus thuringiensis subsp. Aizawai Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subsp. Tenebrionis Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subsp. Tenebrionis Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subsp. Tenebrionis Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subsp. Tenebrionis delta endotoxin Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis Subspecies Israelensis, strain IPS-78 Bacillus thuringiensis Subspecies Kurstaki strain BMP 123 Bacillus thuringiensis Subspecies Kurstaki strain BMP 123 Bacillus thuringiensis Subspecies Kurstaki strain HDP-1, lepidopteran active toxin Bacillus thuringiensis G8038-71-1 G402 S010 Insecticide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial		00036-71-1	0400	3004	msecucide	Microbial
Bacillus thuringiensis sub. Kurstaki strain EG/7673 coleopteran active toxin  Bacillus thuringiensis sub. Kurstaki strain EG/7673 lepidopteran active toxin  Bacillus thuringiensis subsp. NA 1224 6403 NA 170 Insecticide Microbial Microbial Aizawai  Bacillus thuringiensis subsp. NA 1224 6403 NA 170 Insecticide Microbial Microb		69029 71 1	6404	2410	T	36: 1:1
Bacillus thuringiensis sub. Kurstaki strain EG7673   Coleopteran active toxin	,	00036-71-1	0404	2410	insecticide	Microbial
Kurstaki strain EG7673 coleopteran active toxin  Bacillus thuringiensis sub. Kurstaki strain EG7673 lepidopteran active toxin  Bacillus thuringiensis subsp. Aizawai  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Ceropionis  Bacillus thuringiensis subsp. Ceropionis  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Ceropionis  Bacillus thuringiensis subsp. Ceropionis delta endotoxin  Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial  Microbial  Microbial  Insecticide Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		60020 71 1	C440	5051		
Coleopteran active toxin   Bacillus thuringiensis sub. Kurstaki strain EG7673   lepidopteran active toxin   Bacillus thuringiensis subsp. Aizawai   Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo   Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subspecies Israelensis strain EG2215   Bacillus thuringiensis subspecies Israelensis, strain EG2215   Bacillus thuringiensis subspecies Israelensis, strain EG2215   Bacillus thuringiensis subspecies Israelensis strain BMP 123   Bacillus thuringiensis subspecies Kurstaki strain BMP 123   Bacillus thuringiensis subspecies Kurstaki strain BMP 123   Bacillus thuringiensis subspecies Kurstaki strain BMP 123   Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin   Bacillus thuringiensis   G8038-71-1   G402   S010   Insecticide   Microbial   Microbial   Microbial   Microbial   Bacillus thuringiensis   G8038-71-1   G402   S010   Insecticide   Microbial   Microbial   Microbial   Microbial   Bacillus thuringiensis   G8038-71-1   G402   S010   Insecticide   Microbial   Microbial   Microbial   Microbial   Bacillus thuringiensis   G8038-71-1   G402   S010   Insecticide   Microbial   Microbial   Microbial   Microbial   Microbial   Bacillus thuringiensis   G8038-71-1   G403   G403   G404   Microbial		08038-71-1	0448	2021	Insecticide	Microbial
Bacillus thuringiensis sub. Kurstaki strain EG7673   lepidopteran active toxin				ſ		
Rurstaki strain EG7673   lepidopteran active toxin   Bacillus thuringiensis subsp.   Aizawai		60020 71 1	6445			
lepidopteran active toxin		68038-71-1	6447	5049	Insecticide	Microbial
Bacillus thuringiensis subsp. Aizawai  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Tenebrionis  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin Bacillus thuringiensis subspecies Israecticide  Microbial	•					
Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Tenebrionis  Bacillus thuringiensis subspe. Tenebrionis  Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies Kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial		371 1001	(100	1		
Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO1 by Agrevo		NA 1224	6403	NA 170	Insecticide	Microbial
Kurstaki, genetically engineered strain AGRO1 by Agrevo  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. G8038-71-1 G405 S043 Insecticide Microbial Microbial Microbial San Diego  Bacillus thuringiensis subsp. G8038-71-1 G405 S043 Insecticide Microbial Microbial Sacillus thuringiensis subspec. G8038-71-1 NA 169 3972 Insecticide Microbial Microbial Subspecies Israelensis strain EG2215  Bacillus thuringiensis Strain EG2215  Bacillus thuringiensis G8038-71-1 G401 H018 Insecticide Microbial Subspecies Israelensis, strain IPS-78  Bacillus thuringiensis Subspecies Kurstaki strain BMP 123  Bacillus thuringiensis G8038-71-1 G407 H024 Insecticide Microbial Subspecies Kurstaki strain HD-1, lepidopteran active toxin G8038-71-1 G453 3988 Insecticide Microbial		60020 71 1	6400	5004	7	321 111
engineered strain AGRO1 by Agrevo  Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. NA 1232 ##### NA 171 Insecticide Microbial San Diego  Bacillus thuringiensis subsp. 68038-71-1 6405 5043 Insecticide Microbial Tenebrionis  Bacillus thuringiensis subspec. 68038-71-1 NA 169 3972 Insecticide Microbial Subspecies Israelensis strain EG2215  Bacillus thuringiensis subspec. NA 1234 6476 NA 171 Insecticide Microbial Subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspec 68038-71-1 6401 4018 Insecticide Microbial Subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspec 68038-71-1 6407 4024 Insecticide Microbial Subspecies Kurstaki strain HD-1, lepidopteran active toxin Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial Microbial Subspecies Kurstaki strain HD-1, lepidopteran active toxin Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial	Kurstaki geneticallu	00030-/1-1	0402	3004	Insecticide	Microbial
Agrevo   Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   G8038-71-1   G405   S043   Insecticide   Microbial   Microbia	engineered strain ACRO1 has					
Bacillus thuringiensis subsp. Kurstaki, genetically engineered strain AGRO2 by Agrevo   Bacillus thuringiensis subsp. San Diego   Bacillus thuringiensis subsp. Tenebrionis   Bacillus thuringiensis subspective   Bacillus thuringiensis subspective   Bacillus thuringiensis subspective   Bacillus thuringiensis subspective   Bacillus thuringiensis subspective   Bacillus thuringiensis   Subspecies Israelensis strain   EG2215     Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Bacillus thuringiensis   Subspecies Kurstaki strain BMP   123   Bacillus thuringiensis   Bac				<u> </u>		
Kurstaki, genetically engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Tenebrionis  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis strain EG2215  Bacillus thuringiensis strain IPS-78  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain BMP 123  Bacillus thuringiensis strain HD-1, lepidopteran active toxin Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		60020 71 1	6400	- 5005		
engineered strain AGRO2 by Agrevo  Bacillus thuringiensis subsp. San Diego  Bacillus thuringiensis subsp. Tenebrionis  Bacillus thuringiensis subspec. Tenebrionis  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial	Facility and the state of the s	08038-71-1	6402	5005	Insecticide	Microbial
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Bacillus thuringiensis subsp. San Diego Bacillus thuringiensis subsp. Tenebrionis Bacillus thuringiensis subspec. Tenebrionis Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis, strain IPS-78 Bacillus thuringiensis subspecies kurstaki strain BMP 123 Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin Bacillus thuringiensis 68038-71-1 6405 5043 Insecticide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial	1 -		ļ			
San Diego   Bacillus thuringiensis subsp. Tenebrionis   68038-71-1   6405   5043   Insecticide   Microbial		ATA 1020	41411111	374 161		
Bacillus thuringiensis subsp. Tenebrionis  Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis  Bacillus thuringiensis  Bacillus thuringiensis  Bacillus thuringiensis  Subspecies Israelensis strain  EG2215  Bacillus thuringiensis  Subspecies Israelensis, strain  IPS-78  Bacillus thuringiensis  Subspecies Kurstaki strain BMP  123  Bacillus thuringiensis  Subspecies Kurstaki strain HD-  1, lepidopteran active toxin  Bacillus thuringiensis  68038-71-1  6405  5043  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		NA 1232	#######	NA 171	Insecticide	Microbial
Tenebrionis Bacillus thuringiensis subspec. Tenebrionis delta endotoxin Bacillus thuringiensis subspecies Israelensis strain EG2215 Bacillus thuringiensis subspecies Israelensis, strain IPS-78 Bacillus thuringiensis subspecies kurstaki strain BMP 123 Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin Bacillus thuringiensis 68038-71-1 6401  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		60000 74.4	610.7			
Bacillus thuringiensis subspec. Tenebrionis delta endotoxin  Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin Bacillus thuringiensis  68038-71-1  NA 169  3972  Insecticide Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		68038-71-1	6405	5043	Insecticide	Microbial
Tenebrionis delta endotoxin  Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		60000 51 1	- N. 1 2 2 2	1 22-2		
Bacillus thuringiensis subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		68038-71-1	NA 169	3972	Insecticide	Microbial
subspecies Israelensis strain EG2215  Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis  68038-71-1  6401  4018  Insecticide Microbial  Microbial  Microbial  Microbial  Microbial  Microbial		3TA 400 1				
Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		NA 1234	6476	NA 171	Insecticide	Microbial
Bacillus thuringiensis subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial						
subspecies Israelensis, strain IPS-78  Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial Microbial Microbial				<u> </u>		
Bacillus thuringiensis subspecies kurstaki strain BMP 123  Bacillus thuringiensis 68038-71-1 6407 4024 Insecticide Microbial subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		68038-71-1	6401	4018	Insecticide	Microbial
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subspecies kurstaki strain BMP 123  Bacillus thuringiensis subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial Microbial		(0000 = : : :				
Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		68038-71-1	6407	4024	Insecticide	Microbial
Bacillus thuringiensis 68038-71-1 6402 5010 Insecticide Microbial subspecies Kurstaki strain HD-1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial						<u> </u>
subspecies Kurstaki strain HD- 1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial						
1, lepidopteran active toxin  Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial		68038-71-1	6402	5010	Insecticide	Microbial
Bacillus thuringiensis 68038-71-1 6453 3988 Insecticide Microbial						
				<u> </u>		
subspecies kurstaki, genetically		68038-71-1	6453	3988	Insecticide	Microbial
	subspecies kurstaki, genetically					

eagineered strain EG7841 lepidopteran active toxin Bacillus thuringiensis var. kurstaki delta endotoxin protein as produced by the CQ1/A(o) gene and its controlling sequences Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin Bacillus thuringiensis var. Kurstaki genetically engineered strain EG7826 Lepidopteran active toxin Na 1389 NA 195 NA 195 NA 195 NA 195 NA 195 NA Microbial Na 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA Microbial Microbial Microbial Microbial Microbial Microbial Na 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 3150 NA 213 NA 214 Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial NA 1510 NA 222 NA 222 Insecticide Microbial Microbial Microbial Microbial Microbial Microbial Microbial NA 213 NA 213 NA 213 NA Microbial Microbial Microbial Microbial Microbial Microbial Microbial NA 213 NA 213 NA 213 NA 213 NA Microbial Microbia	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
engineered strain EG7841 Becillus thuringiensis var. Kurstaki delta endotoxin proteins os produced by the Cyrl A(c) gene and its controlling sequences Bacillus thuringiensis var. Kurstaki genetically engineered strain EG7826 Lepidopteran active toxin Neodiprion sertifer nuclear polyhedrosis virus Nosema locustae spores Naclear polyhedrosis virus of Helicoverpea zea Nalelar polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces nuouses) (withdrawn: 23614-R ; pp.					<u> </u>	Chomical Class
Bacillus thuringiensis var. kurstaki dela endotoxin protein as produced by the CrylA(c) gene and its controlling sequences  Bacillus thuringiensis var. kurstaki strain M-200 protein toxin  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. huringiensis						
kurstaki delta endotoxin protein as produced by the Cryl A(c) gene and its controlling sequences  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. 68038-71-1 6452 3962 Insecticide Microbial Microbial Seatily engineered strain ECX 9441  Bacillus thuringiensis var. 68038-71-1 6459 5325 Insecticide Microbial Pacific Microbial Seatily engineered strain ECX 9441  Bacillus thuringiensis var. 68038-71-1 6459 5325 Insecticide Microbial Pacific Microbial Seatily engineered strain ECX 9441  Bacillus thuringiensis var. 68038-71-1 6459 5325 Insecticide Microbial Pacific Microbia						
as produced by the CrylA(c) gene and its controlling sequences Bacillus thuringiensis var. Kurstakis rain M-200 protein toxin Bacillus thuringiensis var. 68038-71-1 6452 3962 Insecticide Microbial methodis of the mulcar polyhedrosis virus of Na 1389 NA 196 NA 195 N/A Microbial microbial methodis of the mulcar polyhedrosis virus of Helicoverpea zea nousel (Microbial microbial mouse) NA 831 mousel most firm cure from the mouse fundamental mouse fundamental mousel mousel mouse fundamental mousel mousel mouse fundamental mousel mousel mousel mouse fundamental mousel mouse fundamental mousel mou		NA 1238	6445	NA 171	Insecticide	Microbial
gene and its controlling sequences Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECK 9441 Bacillus thuringiensis var. Bacillus thuringensis var. Bacillus thuringiensis var. Bacillus thuringiensis	kurstaki delta endotoxin protein			-		,
Sequences   Bacillus thuringiensis var.   68038-71-1   6452   3978   Insecticide   Microbial	as produced by the Cryl A(c)			<u> </u>		
Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. NA 1389  NA 195  NA 195  N/A  Microbial  Na 1430  NA 1431  NA 1431  NA 113  NA 113  NA 113  NA 1140  NA 115  NA 1213  NA 115  N/A  Microbial  Na 115  Na 115	, -			1		
Rurstaki strain M-200 protein toxin   Bacillus thuringiensis var.   Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var.   Kurstaki, genetically engineered strain EG7826   Lepidopteran active toxin     Neodiprion sertifer nuclear polyhedrosis virus   NA 1389   NA 196   NA 195   N/A   Microbial     Neodiprion sertifer nuclear polyhedrosis virus   NA 1451   NA 215   NA 214   Insecticide   Microbial     Nuclear polyhedrosis virus   NA 1451   NA 215   NA 214   Insecticide   Microbial     Nuclear polyhedrosis virus   NA 1451   NA 215   NA 214   Insecticide   Microbial     Nuclear polyhedrosis virus   NA 1451   NA 215   NA 214   Insecticide   Microbial     Nuclear polyhedrosis virus   NA 1450   NA 213   NA 213   N/A   Microbial     Nuclear polyhedrosis virus   NA 1510   NA 222   NA 222   Insecticide   Microbial     Na 1510   NA 222   NA 222   Insecticide   Microbial     Na 1510   NA 252   NA 254   NA 255   NA 2		69020 71 1	5450	20-0		
Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9426  Lepidopteran active toxin  Neodiprion sertifer nuclear polyhedrosis virus  Nosema locustae spores  NA 20  ##### 2137  Insecticide Microbial  Microbial  Microbial virus of Helicoverpea zea  NA 1430  NA 215  NA 215  NA 215  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 214  Insecticide Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  NA 130  NA 213  NA 213  NA 213  NA 213  NA 213  NA 214  Microbial  Microbial  Microbial  Na 1430  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 213  NA 214  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Paecilomyces fumosoroseus  apopka strain 97  Paecilomyces fumosoroseus  A 251  Penicillin G, potassium salt  NA 666  NA 123  Penicillin G, potassium salt  NA 666  NA 123  Penicillin G, potassium salt  NA 666  NA 123  Penicillin G, potassium salt  NA 666  NA 123  Penicillin G, potassium salt  NA 860  #####  Phytophthora palmivora,  chlamydospores of  Polyhedral inclusion bodies of  Douglas fir tussock moth  muclear polyhedrosis virus  Polyhedral inclusion bodies of  NA 1290  NA 1290  Microbial  Micro		08038-/1-1	6452	3978	Insecticide	Microbial
Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain EGX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain EGX 945  Lepidopteran active toxin  Neodiprion sertifer nuclear polyhedrosis virus  Nosema Joustae spores  NA 20 ##### 2137 Insecticide Microbial  Nuclear polyhedrosis virus  Na 1451 NA 215 NA 214 Insecticide Microbial  Nuclear polyhedrosis virus of Helicoverpea zea  Nuclear polyhedrosis virus of Helicoverpea zea noursel) (withdrawn : 23614-R: pm24)  Paecilomyces furnosoroseus noursel) (withdrawn : 23614-R: pm24)  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 666 NA 123 NA 213 Insecticide Microbial  Phibeiopsis gigantea NA 1439 NA 213 NA 213 Insecticide Microbial  Phibeiopsis gigantea NA 1462 NA 217 NA 216 Fungicide Microbial  Phytophthora palmivora, chlamydospores of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral inclusion bodies of Polyhedral inclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)  Polyhedral caclusion bodies of Helicoverpa zea (corn earworm)	-					
Kurstaki, genetically   G8038-71-1   G459   S325   Insecticide   Microbial		68038-71-1	6402	3062	Tunnatiaida	36: 1:1
engineered strain ECX 9441     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial		00030-71-1	0402	3902	insecticide	Microbial
Bacillus thuringiensis var.  Kurstaki, genetically engineered strain EG7826 Lepidopteran active toxin  Noediprion sertifer nuclear polyhedrosis virus  Nosema locustae spores  NA 20 ##### 2137 Insecticide Microbial  Nuclear polyhedrosis virus  NA 1451 NA 215 NA 214 Insecticide Microbial  Nuclear polyhedrosis virus of Helicoverpea zea  Nuclear polyhedrosis virus of red-headed pine sawfly  Nystatin (streotomyces noursei) (withdrawn: 23614-R: pm24)  Paecilomyces furnosoroseus apopka strain 97  Paccilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 1462 NA 213 NA 213 Insecticide Microbial  Penicophora gigantea NA 1462 NA 213 NA 213 Insecticide Microbial  Phlebiopsis gigantea NA 1462 NA 217 NA 216 Pungicide Microbial  Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fit tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  NA 835 ##### NA 175 Insecticide Microbial  NA 1289 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 835 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 835 ##### NA 175 Insecticide Microbial  NA 836 ##### NA 175 Insecticide Microbial  NA 837 ##### NA 175 Insecticide Microbial  NA 838 ##### NA 175 Insecticide Microbial  NA 839 ##### NA 175 Insecticide Microbial  NA 835 ##### NA 175 Insecticide Microbial  NA 836 ###### NA 175 Insecticide Microbial  NA 837 ###################################		·				
Kurstaki, genetically engineered strain EG7826 Lepidopteran active toxim Neodiprion sertifer nuclear polyhedrosis virus Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Itad-headed pine sawfly Nystatin (streotomyces noursei) (withdrawn: 23614-R: pm24) Paecilomyces fumosoroseus apopka strain 97 Paecilomyces Lilacinus Strain 251 Penicillin G, potassium salt Peniophora gigantea NA 1462 NA 213 NA 213 NA 213 NA 213 NA Microbial Peniophora gigantea NA 1462 NA 217 NA 216 Peniophora gigantea NA 1388 NA 196 NA 195 Pulybedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of NA 593 Polyhedral inclusion bodies of NA 1290 NA 1290 Polyhedral inclusion bodies of NA 1290 Polyhedral inclusion bodies of NA 1290 Polyhedral inclusion bodies of Sypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1290 Polyhedral inclusion bodies of NA 1290 Polyhedral coclusion bodies of Sypsy moth nucleopolyhedrosis virus Polyhedral coclusion bodies of NA 1290 Polyhedral coclusion bodies of Sypsy moth nucleopolyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral coclusion bodies (OB's) of the nuclear polyhedrosis virus of Aluorapha californica (alfalfa looper)		68038-71-1	6459	5325	Insecticide	Microbial
Lepidopteran active toxin   Neodiprion sertifer nuclear polyhedrosis virus   Nosema locustae spores   NA 20				5525	mbonorao	Wilciobiai
Neodiprion sertifer nuclear polyhedrosis virus Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nuclear polyhedrosis virus Nuclear polyhedrosis virus Na 1451 NA 215 NA 214 Insecticide Microbial Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces nourse) (withdrawn: 23614-R : pm24) Paecilomyces furnosoroseus apopka strain 97 Paecilomyces Lilacinus Strain 251 Penicillin G, potassium salt Peniophora gigantea NA 1439 NA 213 NA 213 Insecticide Microbial Peniophora gigantea NA 1460 NA 123 1283 N/A Microbial Phelbiopsis gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial Polyhedral occlusion bodies of NA 1290 ##### NA 175 Insecticide Microbial Polyhedral occlusion bodies of NA 835 ##### NA 175 Insecticide Microbial Polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedrosis virus of Autographa californica (alfalfa looper)	_					
Polyhedrosis virus   Nosema locustae spores   NA 20   #####   2137   Insecticide   Microbial   Nuclear polyhedrosis virus of   Helicoverpea zea   NA 1451   NA 215   NA 214   Insecticide   Microbial   Nuclear polyhedrosis virus of   Helicoverpea zea   NA 1430   NA 213   NA 213   N/A   Microbial   Nuclear polyhedrosis virus of   red-headed pine sawfly   Nystatin (streotomyces   1400-61-9   #####   NA 115   N/A   Microbial   NA 222   Insecticide   Microbial   NA 222   Insecticide   Microbial   NA 222   Insecticide   Microbial   NA 223   NA 224   Insecticide   Microbial   NA 225   NA 225   Insecticide   Microbial   NA 226   NA 227   NA 228   Insecticide   Microbial   NA 228   NA 228   NA 229   NA 2						
Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nuclear polyhedrosis virus of NA 1451 NA 215 NA 214 Insecticide Microbial Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces nourses) (withdrawn: 23614-R: :pm24) Paecilomyces fumosoroseus apopka strain 97 Paecilomyces fumosoroseus ANA 311 ##### 3964 Insecticide Microbial 251 Penicillin G, potassium salt NA 666 NA 123 NA 213 NA 213 Insecticide Microbial Peliophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phlytophthora palmivora, chlamydospores of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial NA 835 ##### NA 175 Insecticide Microbial Polyhedral coclusion bodies of Helicoverpa zea (corn earworm) Polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1389	NA 196	NA 195	N/A	Microbial
Nuclear polyhedrosis virus   NA 1451   NA 215   NA 214   Insecticide   Microbial   Nuclear polyhedrosis virus of Helicoverpea zea   Nuclear polyhedrosis virus of Helicoverpea zea   Nuclear polyhedrosis virus of red-headed pine sawfly   Nystatin (streotomyces   NA 1510   NA 222   NA 222   Insecticide   Microbial   Na 1510   NA 222   NA 222   Insecticide   Microbial   Na 1510   NA 222   NA 222   Insecticide   Na 1510   NA 1511   Na 151   NA 151   NA 151   Na 152   NA 153   Microbial   Na 153   Microbial   Na 154   NA 155   NA 155   Na 155   NA 155   NA 155   NA 155   NA 155   NA 155   NA 155   NA 155   NA 155						
Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces noursei) (withdrawn: 23614-R: pm24) Paecilomyces funosoroseus apopka strain 97 Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 251 Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial Penicyhora gigantea NA 1439 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1482 NA 195 Fungicide Microbial Phlebiopsis gigantea NA 1888 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, NA 860 ##### 5078 Herbicide Microbial Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial Polyhedral inclusion bodies of NA 835 ##### NA 175 Insecticide Microbial NA 835 ##### A028 Insecticide Microbial Polyhedral occlusion bodies of Hill Polyhedral occlusion bodies of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm) Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (comearworm)					Insecticide	Microbial
Helicoverpea zea   Nuclear polyhedrosis virus of red-headed pine sawfly			NA 215	NA 214	Insecticide	Microbial
Nuclear polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces noursei) (withdrawn: 23614-R: pm24)  Paecilomyces fumosoroseus apopka strain 97  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt Peniophora gigantea NA 1439 Phlebiopsis gigantea NA 1462 Phlebiopsis gigantea NA 1388 Phlebiopsis gigantea NA 1880 Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of Sypsy moth nucleopolyhedrosis virus Polyhedral occlusion bodies of Helicoverpa zea (comerance arworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1292 NA 222 Insecticide Microbial NA 115 N		NA 1430	NA 213	NA 213	N/A	Microbial
red-headed pine sawfly Nystatin (streotomyces noursei) (withdrawn: 23614-R:pm24) Paecilomyces fumosoroseus apopka strain 97 Paecilomyces Lilacinus Strain Paecilomyces Lilacinus Strain NA 1439 NA 213 NA 213 Paecilomyces Lilacinus Strain Penicillin G, potassium salt NA 666 NA 123 Penicillin G, potassium salt Phlebiopsis gigantea NA 1462 NA 217 NA 216 Phlebiopsis gigantea NA 1388 NA 196 NA 195 Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of NA 1290 Polyhedral inclusion bodies of NA 1290 Polyhedral inclusion bodies of NA 1290 Polyhedral occlusion bodies of Helicoverpa zea (cornearworm) Polyhedrosis virus of Helicoverpa zea (cornearworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper) Polyhedrosis virus of Autographa californica (alfalfa looper)						
Nystatin (streotomyces nousei) (withdrawn: 23614-R: pm24)  Paecilomyces fumosoroseus apopka strain 97  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial Penicillin G, potassium salt NA 1462 NA 217 NA 216 Fungicide Microbial Phytophthora palmivora, NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, NA 860 ##### 5078 Herbicide Microbial Chlamydospores of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of Sysys moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial Microbial NA 835 ##### NA 175 Insecticide Microbial Microbial NA 835 ##### A028 Insecticide Microbial Microbial Polyhedral occlusion bodies of Helicoverpa zea (come carworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1510	NA 222	NA 222	Insecticide	Microbial
noursei) (withdrawn: 23614-R : pm24)  Paecilomyces fumosoroseus apopka strain 97  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 666  Penicillin G, potassium salt NA 1462  Penicillin G, potassium salt NA 1462  Penicillin G, potassium salt NA 1462  Penicillin G, potassium salt NA 1462  Penicillin G, potassium salt NA 1462  Penicillin G, potassium salt NA 1462  Phlebiopsis gigantea NA 1388  NA 196  Phlebiopsis gigantea NA 1388  NA 196  Phlebiopsis gigantea NA 1388  NA 196  Phlebiopsis gigantea NA 1388  Pausicide Microbial  Phytophthora palmivora, NA 860  Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289  Polyhedral inclusion bodies of NA 1290  NA 1290  Polyhedral occlusion bodies of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)		1400 (1.0	22222			· · · · · · · · · · · · · · · · · · ·
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Paecilomyces fumosoroseus apopka strain 97 Paecilomyces Lilacinus Strain 251 Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, chlamydospores of NA 860 ##### 5078 Herbicide Microbial Microbial Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral coclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial NA 835 ##### A028 Insecticide Microbial Microbial NA 835 ##### A028 Insecticide Microbial Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 835 ###### NA 175 Insecticide Microbial NA 1290 ###### NA 175 Insecticide Microbial NA 1290 ###### NA 175 Insecticide Microbial NA 1290 ####################################					ļ	
apopka strain 97  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial  Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial  Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial  Phytophthora palmivora, chlamydospores of Douglas fir tussock moth nuclear polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral coclusion bodies of NA 835 ##### 4028 Insecticide Microbial  Polyhedral occlusion bodies of Helicoverpa zea (corn earworm)  Polyhedrosis virus of Autographa californica (alfalfa looper)		NA 831	111111111111111111111111111111111111111	3064	Importional	3.6111-1
Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial  Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial  Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial  Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of gypsy moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### A028 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  NA 1290 ###### NA 175 Insecticide Microbial  NA 1290 ####################################		1471 051	<i>11111111111</i>	3904	msecucide	Microbial
Penicillin G, potassium salt NA 666 NA 123 1283 N/A Microbial Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial Microbial Phyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial N. sertifer NA 835 ##### A028 Insecticide Microbial Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1439	NA 213	NA 213	Insecticide	Microbial
Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial Phlyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 835 ###### A028 Insecticide Microbial Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)	251		11222	1111213	Hiscottonic	MICIOUIAI
Peniophora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial  NA 1289 ##### NA 175 Insecticide Microbial  NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1292 ##### NA 175 Insecticide Microbial  NA 1292 ##### NA 175 Insecticide Microbial  NA 1292 ##################################	Penicillin G, potassium salt	NA 666	NA 123	1283	N/A	Microbial
Phlebiopsis gigantea Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 Polyhedral inclusion bodies of Sypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1290 Polyhedral occlusion bodies of NA 1290 Polyhedral occlusion bodies of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper) Polyhedral californica (alfalfa looper)		NA 1462	NA 217			
Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289 Polyhedral inclusion bodies of NA 1290 N. sertifer Polyhedral occlusion bodies of NA 835 Polyhedral occlusion bodies of Helicoverpa zea (corn earworm) Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper) Polyhedral californica (alfalfa looper)	Phlebiopsis gigantea	NA 1388	NA 196			
Chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus Polyhedral inclusion bodies of NA 1289  Polyhedral inclusion bodies of NA 1290  Polyhedral inclusion bodies of NA 1290  Polyhedral occlusion bodies of NA 835  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion to dies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 860	#####			
Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)						*************
Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial  Polyhedral inclusion bodies of NA 835 ##### NA 175 Insecticide Microbial  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)		NA 593	#####	2009	Insecticide	Microbial
Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ###### NA 175 Insecticide Microbial  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrol occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)						
gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Relabel of the nuclear occlusion bodies    NA 1292						
Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1289	#####	NA 175	Insecticide	Microbial
Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral inclusion bodies NA 835 ###### NA 175 Insecticide Microbial Microbial Microbial						
N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 835  ######  4028  Insecticide  Microbial  Microbial  NA 175  Insecticide  Microbial		NIA 1200	422222	NIA 155		
Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 835  #####  4028  Insecticide Microbial  Microbial  NA 175  Insecticide  Microbial  Microbial		NA 1290	<del>1111111111</del>	NA 175	Insecticide	Microbial
(OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)		NA 835	111111111111111111111111111111111111111	4029	Y	3.5: 1:1
polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1292 ##### NA 175 Insecticide Microbial  Microbial	(OB's) of the nuclear	1474 055	<i>1111111111</i>	4028	insecticide	Microbial
Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1292 ##### NA 175 Insecticide Microbial  Microbial		·		1		
Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1292 ##### NA 175 Insecticide Microbial				1		
(OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)						
(OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1292	#####	NA 175	Insecticide	Microbial
Autographa californica (alfalfa looper)						
looper)			l		i	
Dalahada 1 and 1 dalah d						
Polynedral occlusion bodies   NA 830   NA 153   4007   Insecticide   Microbial						
	rolynearal occlusion bodies	NA 830	NA 153	4007	Insecticide	Microbial

(OBs) of the nuclear polyhedrosis virus of Spodoptera exigua Polyhedrosis virus of Spodoptera exigua Polyhedrosis virus of Spodoptera exigua Polyhedrosis virus of Spodoptera exigua Pseudomonas aureofaciens Pseudomonas aureofaciens Pseudomonas cepacia type Wisconsin Pseudomonas cepacia type Wisconsin Pseudomonas chlororaphis NA 1489 Pseudomonas chlororaphis NA 1489 Pseudomonas chlororaphis NA 1489 Pseudomonas fluorescens Ed- 1053 Pseudomonas fluorescens NA 867 Pseudomonas fluorescens NA 867 Pseudomonas fluorescens NA 867 Pseudomonas fluorescens NA 867 Pseudomonas fluorescens NA 868 Pseudomonas fluorescens A506 Pseudomonas syringae strain AGS31 Pseudomonas syringae strain NA 868 Pseudomonas syringae strain NA 868 Pseudomonas syringae strain NA 897 NA 171 Spodomonas syringae strain Pseudomonas syringae, strain AGS31 Pseudomonas syringae, strain Pseudomonas syringae, strain BEC-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-11 Pseudomonas syringae, strain BCS-12 Pseudomonas syringae, strain BCS-13 Pseudomonas syringae, strain BCS-14 Pseudomonas syringae, strain BCS-15 Pseudomonas syringae, strain BCS-16 Pseudomonas syringae, strain BCS-17 Pseudomonas syringae, strain BCS-18 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae, strain BCS-19 Pseudomonas syringae BCS-10 Pseudomonas syringae BCS-10 BCS-10 BCS-10 BCS-10 BCS-10 BCS-10 BCS-10 BCS-10 BCS-10	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
(OBs) of the nuclear polyhedrosis virus of Spodoptera exigua  Polyhedral occlusion bodies of the beet armyworm nuclear polyhedrosis virus  Pseudomonas aureofaciens  Pseudomonas cepaciat type  Wisconsin  Pseudomonas chlororaphis  Pseudomonas chlororaphis  Pseudomonas chlororaphis  Pseudomonas chlororaphis  Strain 63-28  Pseudomonas fluorescens EG-  1033  Pseudomonas fluorescens EG-  1033  Pseudomonas fluorescens EG-  1033  Pseudomonas fluorescens EG-  1033  Pseudomonas fluorescens  NA 867  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 1020  Fyeudomonas fluorescens  NA 868  Fyeudomonas fluorescens  NA 868  Fyeudomonas fluorescens  NA 868  Fyeudomonas fluorescens  NA 868  Fyeudomonas syringae strain  AGS31 Psedomonas syringae strain  AGS31 Psedomonas syringae strain  AGS31 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae strain  AGS41 Pseudomonas syringae  AGS41 Pseudomonas syringae  AGS41 Pseudomonas syringae  AGS41 Pseudomonas syringae  AGS41 Pseudomonas syringae  AGS41 Pseudomonas syringae  AGS41					OSC TYPE	Chemical Class
the beet armyworm nuclear polybedrosis virus  Pseudomonas aureofaciens strain Tx-1  Pseudomonas capacia type NA 449 6419 3926 Fungicide, Microbial Wisconstin  Pseudomonas chlororaphis NA 902 NA 172 5182 Fungicide Microbial Pseudomonas chlororaphis NA 902 NA 172 5182 Fungicide Microbial Strain 63-28 NA 1489 6478 NA 220 Fungicide Microbial Strain 63-28  Pseudomonas fluorescens EG- NA 858 6440 5045 Fungicide Microbial Pseudomonas fluorescens NA 867 6439 3949 Fungicide Microbial Pseudomonas fluorescens NA 867 6439 3949 Fungicide Microbial Pseudomonas fluorescens NA 1020 6438 2842 Fungicide Microbial Pseudomonas fluorescens NA 868 6420 3968 Fungicide Microbial Pseudomonas fluorescens NA 868 6420 3968 Fungicide Microbial Pseudomonas syringae strain NA 887 NA 171 3950 N/A Microbial Microbial Pseudomonas syringae strain PS31 Pseudomonas syringae strain NA 886 6451 3967 Fungicide Microbial ESC-11  Pseudomonas syringae strain NA 836 6451 3967 Fungicide Microbial ESC-11  Pseudomonas syringae, strain 685692-93-7 6411 2824 Fungicide Microbial ESC-10 NA 865 ##### 5121 Herbicide Microbial Microbial ESC-10 NA 865 ##### 5121 Herbicide Microbial Microbial Schowliblis Rabbit Calicivirus NA 1441 NA 214 NA 213 Rodent Microbial Rabbit Calicivirus NA 1441 NA 214 NA 213 Rodent Repellent NA 1556 NA 226 NA 226 Insecticide Microbial Spinosyn D NA 1558 NA 227 NA 226 Insecticide Microbial Spinosyn D NA 1558 NA 227 NA 226 Insecticide Microbial Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores of Bacillus popiliae NA 1453 NA 215 NA 215 Fungicide Microbial Spores of Glocialium NA 1453 NA 214 NA 214 Insecticide Microbial Spores of Glocialium NA 1453 NA 215 NA 215 Fungicide Microbial Summerfruit tortrix moth granulosis virus NA 1849 NA 1857 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Trichoderma harzianum 67892-34-6 ###### NA 106 Fungicide Microbial Microbial Trichoderma harzianum 67892-34-6 ####	polyhedrosis virus of Spodoptera exigua					
Pseudomonas cepacia type   NA 449   6419   3926   Fungicide,   Microbial   Pseudomonas cepacia type   NA 449   6419   3926   Fungicide   Microbial   Pseudomonas chlororaphis   NA 902   NA 172   5182   Fungicide   Microbial   Pseudomonas chlororaphis   Strain 63-28   Pseudomonas chlororaphis   Strain 63-28   Pseudomonas fluorescens EG- 1053   NA 867   6439   3949   Fungicide   Microbial   1053   Pseudomonas fluorescens EG- 1053   NA 867   6439   3949   Fungicide   Microbial   10529KS   Pseudomonas fluorescens   NA 1020   6438   2842   Fungicide   Microbial   Microbial   Microbial   10529KS   Pseudomonas fluorescens   NA 868   6420   3968   Fungicide   Microbial   Micro	the beet armyworm nuclear polyhedrosis virus			NA 175	Insecticide	Microbial
Wisconsin   NA 902   NA 172   S182   Fungicide   Microbial	strain Tx-1		İ	NA 175	Fungicide	Microbial
Pseudomonas chlororaphis strain 63-28	Wisconsin					Microbial
Pseudomonas fluorescens EG- 1053				5182	Fungicide	Microbial
Pseudomonas fluorescens	strain 63-28			NA 220	Fungicide	Microbial
Pseudomonas fluorescens	1053			5045	Fungicide	Microbial
A506   Pseudomonas fluorescens strain NCIB 12089   Pseudomonas syringae strain NCIB 12089   Pseudomonas syringae strain PS31   Pseudomonas syringae strain PS31   Pseudomonas syringae strain PS31   Pseudomonas syringae, strain PS31   Pseudomonas syringae, strain PS31   Pseudomonas syringae, strain PS31   Pseudomonas syringae, strain PS32   Pseudomonas syringae, strain PS32   Pseudomonas syringae, strain PS32   Pseudomonas syringae, strain PSSC-11   Pseudomonas syringae, strain PSSC-10   Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)   Pseudomonas syringae, strain PSSC-10   Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)   Pseudomonas syringae, strain PSSC-10   Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)   Pseudomonas syringae, strain PSSC-10   Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae, strain PSSC-10   Pseudomonas syringae strain PSSC-10   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-11   Pseudomonas syringae strain PSSC-12   Pseudomonas syringae strain PSSC-12   Pseudomonas syringae strain PSSC-12   Pseudomonas syringae strain PSSC-12   Pseudomonas syringae strain PSSC-12   Pseudomonas syringae strain PSSC-12   Pseudomo	1629RS	NA 867	6439	3949	Fungicide	Microbial
Strain NCIB 12089   NA 897   NA 171   3950   N/A   Microbial	A506	NA 1020	6438	2842	Fungicide	Microbial
AGS31 Psedomonas syringae strain PS31  Pseudomonas syringae strain ESC-11  Pseudomonas syringae, strain ESC-11  Pseudomonas syringae, strain 68602-93-7 6411 2824 Fungicide Microbial Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68583-32-4 6441 3960 Fungicide Microbial ESC-10  Pseudomonas syringae, strain 68602-93-7 6411 2824 Fungicide Microbial Microbial ESC-10  Pseudomonas syringae, strain 68602-93-7 6441 3960 Fungicide Microbial Microbial ESC-10  Rhizobiun deguminosarum NA 1441 NA 214 NA 213 Rodent Repellent Microbial Espinosarum NA 1556 NA 226 NA 226 Insecticide Microbial Espinosad I31929-60-7 ##### NA 907 Insecticide Microbial Microbial Spinosad I31929-60-7 ##### NA 907 Insecticide Microbial Microbial Spores of Bacillus popilliae NA 1310 S4502 NA 176 Fungicide Microbial Spores of Bacillus popilliae NA 1310 S4502 NA 176 Fungicide Microbial Spores of Bacillus popilliae NA 1453 NA 215 NA 215 Fungicide Microbial Summerfruit tortrix moth granulosis virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma hazzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Trichoderma hazzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Trichoderma hazzianum 67892-34-6 ##### NA 106 Fungicide Microbial Mic	strain NCIB 12089	NA 868	6420	3968	Fungicide	Microbial
Pseudomonas syringae, strain 742 RS  Pseudomonas syringae, strain ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1556  NA 226  NA 226  NA 226  NA 226  NA 226  Insecticide  Microbial  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1557  NA 226  NA 226  NA 226  Insecticide  Microbial  Spinosad  131929-60-7  #####  Spinosyn D  131929-63-0  Rhizobium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  NA 1310  Spores of Gliocladium catenulatum  Streptomyces griseoviridis Strain K61  Summerfruit tortrix moth granulosis virus  NA 1387  NA 196  NA 195  NA 196  NA 197  Microbial	AGS31 Psedomonas syringae strain PS31	NA 897	NA 171	3950	N/A	Microbial
Pseudomonas syringae, strain ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium neliloti  NA 1556  NA 226  NA 226  NA 226  NA 226  Insecticide  Microbial  Ri	ESC-11	NA 836	6451	3967	Fungicide	Microbial
Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Spinosad  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 216  Fungicide  Microbial	742 RS	68602-93-7	6411	2824	Fungicide	Microbial
(Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1557  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  NA 1557  NA 226  NA 226  Insecticide  Microbial  Microbial  Spinosad  Spinosad  Spinosyn D  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium Catenulatum  Streptomyces griseoviridis Strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 106  Fungicide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial	ESC-10	68583-32-4	6441	3960	Fungicide	Microbial
Rabit Calicivirus   NA 1441   NA 214   NA 213   Rodent Repellent	(Schweinitz) Lagerheim (ATCC #40199)		######	5121	Herbicide	Microbial
Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Spinosad  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1556  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 227  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 214  NA 214  NA 214  Fungicide  Microbial  Microbial  Microbial  Microbial  NA 1310  S4502  NA 176  Fungicide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial	Bacillus subtilis	NA 915	6479	5447	Fungicide	Microbial
Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Spinosad  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1556  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  Microbial  NA 226  NA 226  Insecticide  Microbial		NA 1441	NA 214	NA 213		Microbial
Rhizobium meliloti Rhizobium meliloti NA 1558 NA 227 NA 226 Insecticide Microbial Spinosad Spinosyn D 131929-60-7 Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 226 Insecticide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial	biovar phaseoli		NA 226	NA 226		Microbial
Spinosad 131929-60-7 ##### 3983 Insecticide Microbial Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium NA 1453 NA 215 NA 215 Fungicide Microbial Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial	viciaeTJ 9	NA 1557	NA 226	NA 226	Insecticide	Microbial
Spinosad 131929-60-7 ##### 3983 Insecticide Microbial Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial		NA 1558	NA 227	NA 226	Insecticide	Microbial
Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ###### NA 106 Fungicide Microbial  ###################################			#####			
Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  NA 1310  Spores of Gliocladium Catenulatum  Streptomyces griseoviridis Strain K61  Summerfruit tortrix moth Granulosis virus  Tomato mosaic virus  NA 1446  NA 214  NA 214  Fungicide  Microbial  NA 176  Fungicide  Microbial  Microbial  Microbial  NA 215  NA 215  NA 215  NA 215  NA 215  NA 215  Fungicide  Microbial  Microbial  Microbial  Microbial  NA 1491  NA 221  NA 221  NA 221  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial			#####	NA 907	Insecticide	
Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 215  NA 215  NA 215  Fungicide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Trichoderma harzianum  67892-34-6  ######  NA 106  Fungicide  Microbial	Phlebiopsis gigantea		NA 214	NA 214	Fungicide	
Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1453  NA 215  NA 215  Fungicide  Microbial  Microbial  NA 1491  NA 221  NA 221  NA 221  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Trichoderma harzianum  67892-34-6  ######  NA 106  Fungicide  Microbial				NA 176	Fungicide	Microbial
Strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 195  NA Microbial  Trichoderma harzianum  Tomato mosaic virus  Trichoderma harzianum  Trichoderma harzianum  Trichoderma harzianum  Trichoderma harzianum  Trichoderma harzianum  Trichoderma harzianum  Trichoderma harzianum	catenulatum		NA 215	NA 215		
granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial	strain K61	NA 875	#####	3937	Fungicide	Microbial
Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial	granulosis virus	NA 1491	NA 221	NA 221	Insecticide	Microbial
Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial	Tomato mosaic virus	NA 1387	NA 196	NA 195	N/A	Microbial

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Trial 1	(7000 01 0	Code	Code		
Trichoderma harzianum rifai strain KRL-AG2	67892-31-3	#####	3977	Fungicide	Microbial
Trichoderma harzianum Rifai strain T-39	67892-31-3	#####	4016	Fungicide	Microbial
Trichoderma polysporum (ATCC 20475)	67892-31-3	#####	NA 176	Fungicide	Microbial
Trichoderma polysporum rifai	NA 1067	NA 159	5101	N/A	Microbial
Verticillium dahliae Kleb.	NA 1386	NA 196	NA 195	Fungicide	Microbial
Verticillium lecanii	67892-35-7	6421	NA 96	Insecticide	Microbial
Xanthomonas campestris pv.  Poannua	NA 910	NA 174	5317	Herbicide	Microbial
Yeast ·	NA 652	NA 119	3827	N/A	Microbial
Allyl isothiocyanate	57-06-7	4901	1010	Insecticide	Oil - essential
Almond, bitter	8013-76-1	NA 546	3576	N/A	Oil - essential
Aloe vera oil	NA 918	NA 175	5454	N/A	Oil - essential
Blend of oils: of lemongrass, of citronella, of orange, of bergamot; geraniol, ionone alpha, methyl salicylate and allylisothioc	NA 1499	NA 221	NA 221	Insecticide	Oil - essential
Camphor	76-22-2	15602	102	Insecticide, Fungicide, Microbiocide	Oil - essential
Camphor oil	8008-51-3	15601	NA 142	Insecticide, Fungicide, Microbiocide	Oil - essential
Canadian balsam	8007-47-4	67209	NA 580	Insecticide, Fungicide	Oil - essential
Cedar leaf oil	8007-20-3	40507	NA 340	Insecticide, Fungicide	Oil - essential
Cinnamon oil	NA 922	NA 175	5577	N/A	Oil - essential
Clove oil	8000-34-8	#####	5018	N/A	Oil - essential
Essential oils	8014-17-3	NA 121	873	Insecticide	Oil - essential
Eucalyptus oil	8000-48-4	40503	281	Insect	Oil - essential
				Repellent, Insecticide	<b>313 33331111</b>
Fir needle oil	8021-28-1	#####	NA 110	N/A	Oil - essential
Lavandin oil	8022-15-9	40500	5017	Insect Repellent, Insecticide, Dog and Cat Repellent	Oil - essential
Lemon peel oil	8020-19-7	40518	NA 346	N/A	Oil - essential
Lime Oil Limonene	8008-26-2	NA 213	NA 212	Insecticide	Oil - essential
	138-86-3	79701	979	Insect Repellent, Insecticide, Dog and Cat Repellent	Oil - essential
Limonene	138-86-3	79701	2531	Insecticide	Oil - essential
Mixture citronella oil, citrus oil, eucalyptus oil, pine oil	NA 1493	NA 221	NA 221	Insect Repellent	Oil - essential
Oil of ambergis	8038-65-1	#####	NA 105	N/A	Oil - essential
Oil of anise	8007-70-3	4301	1051	Insect Repellent, Insecticide,	Oil - essential

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chemical Class
				Dog and Cat Repellent	
Oil of bay	8006-78-8	40520	2072	N/A	Oil - essential
Oil of bergamot	8007-75-8	#####	1517	Insect	Oil - essential
		""""	1317	Repellent,	Ou - essential
		}		Insecticide,	
				Dog and Cat	
				Repellent	
Oil of black pepper	NA 1521	NA 223	NA 223	Insecticide	Oil - essential
Oil of cajeput	8008-98-8	40504	NA 339	N/A	Oil - essential
Oil of camphor sassafrassy	8006-80-2	15603	897	N/A	Oil - essential
Oil of chamomile (Matricaria	8002-66-2	#####	NA 104	Insecticide	Oil - essential
chamomilla and/or Anthemidis					
nobilis)					
Oil of chenopodium	8006-99-3	NA 18	1524	N/A	Oil - essential
Oil of citronella	8000-29-1	21901	143	Insect	Oil - essential
				Repellent, Dog	
				and Cat	
Oil of citrus	NIA 12	274 10	1001	Repellent	
On or cities	NA 13	NA 19	1931	Insect	Oil - essential
Oil of geranium	8000-46-2	#####	1007	Repellent	
Oil of jasmine	8022-96-6	40501	1887	Fragrance	Oil - essential
Oil of jojoba	61789-91-1	67200	5063	Insecticide	Oil - essential
On or jojova	01/09-91-1	0/200	3833	Insecticide,	Oil - essential
				Insect	
				Repellent, Fungicide, Dog	
			•	and Cat	
· .				Repellent	
Oil of lavender	8000-28-0	#####	1888	Insecticide	Oil - essential
Oil of lemon	8008-56-8	NA 120	440	N/A	Oil - essential
Oil of lemongrass	5392-40-5	40510	1009	Insecticide,	Oil - essential
		<u></u>		Pheromone	011 00001111111
Oil of lemongrass	2229107	40502	1136	Insect	Oil - essential
				Repellent,	
				Insecticide	
Oil of mustard	57-06-7	4901	1153	Insect	Oil - essential
				Repellent,	
				Insecticide,	
				Dog and Cat	
Oil of orange	8008-57-9	40517	441	Repellent	
on or orango	0000-37-9	40317	441	Insect Repellent,	Oil - essential
				Insecticide,	
				Dog and Cat	1
				Repellent	
Oil of pennyroyal	8007-44-1	40509	1325	Insecticide	Oil - essential
Oil of peppermint	8006-90-4	NA 669	2058	Insecticide	Oil - essential
Oil of rosemary	8000-25-7	#####	5450	Insecticide	Oil - essential
Oil of rue	8014-29-7	40519	2206	N/A	Oil - essential
Oil of spearmint	8008-79-5	#####	1508	N/A	Oil - essential
Oil of thyme	8007-46-3	#####	NA 159	N/A	Oil - essential
Oil of wintergreen	119-36-8	76601	746	Insecticide	Oil - essential
Oils, tea-tree	68647-73-4	28853	NA 211	N/A	Oil - essential
Orange pith oil	NA 1461	NA 217	NA 216	Insecticide	Oil - essential
*					OII - COSCILIAI

Chemical Name	CAS Number	U.S. EPA PC	CA CI	TT	
<u>Gaeranour a vurno</u>	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
Perfume, cherry fragrance oil	NA 751	NA 136	2743	Fragrance	Oil - essential
#493	50000 00 5				
Phytelene of marigold	70892-20-5	#####	NA 976	N/A	Oil - essential
Phytelene of marigold	84776-23-8	#####	NA 977	N/A	Oil - essential
Tansy, sage and lavender extracts	NA 1452	NA 215	NA 214	Insecticide	Oil - essential
Vanillin	121-33-5	#####	5149	N/A	Oil - essential
Canola oil	120962-03-0	11332	5332	Insecticide,	Oil - vegetable
Castor oil	9001 70 4			Adjuvant	
Castor on	8001-79-4	31608	1013	Rodenticide,	Oil - vegetable
				Insecticide,	
				Insect	
Coconut oil	8001-31-8	#####	NA 124	Repellent N/A	0:1
Coconut oil monoethanolamine	68140-00-1	69179	1361	Adjuvant,	Oil - vegetable
		922,7	1501	Soap/Surfactant	Oil - vegetable
Corn oil	8001-30-7	NA 117	3626	N/A	Oil - vegetable
Cottonseed oil	8001-29-4	31602	1015	Insecticide	Oil - vegetable
Emulsifiable methylated	NA 907	NA 173	5224	Insecticide,	Oil - vegetable
vegetable oil				Adjuvant	On vegetable
Fir needle oil, siberian	8021-29-2	NA 236	2570	.N/A	Oil - vegetable
Hydrogenated castor oil	8001-78-3	31604	3830	Bird Repellent	Oil - vegetable
Hydrogenated soybean oil	8016-70-4	NA 186	3670	N/A	Oil - vegetable
Hydrogenated vegetable oils	NA 881	NA 169	5146	N/A	Oil - vegetable
Linseed oil with driers	NA 61	NA 116	2645	N/A	Oil - vegetable
Linseed oil, boiled	68553-15-1	NA 115	2644	N/A	Oil - vegetable
Methyl soyate	68919-53-9	NA 146	3519	Adjuvant	Oil - vegetable
Oil of linseed	8001-26-1	31603	2248	N/A	Oil - vegetable
Olive oil Palm oil	8001-25-0	31610	3710	N/A	Oil - vegetable
Peanut oil	NA 749	NA 136	2731	N/A	Oil - vegetable
Plant oils (including rape seed	2227315	NA 118	3722	N/A	Oil - vegetable
oil)	NA 1351	NA 192	NA 191	Insecticide	Oil - vegetable
Rapeseed oil	8002-13-9	NA 220	NA 219	Insecticide	Oil - vegetable
Safflower oil	8001-23-8	NA 124	1510	N/A	Oil - vegetable
Sesame oil	8008-74-0	72401	1221	N/A	Oil - vegetable
Soybean oil	8001-22-7	31605	2335	Insecticide,	Oil - vegetable
Vegetable oil	8008-89-7	NA 111	1231	Adjuvant	
Vegetable oil modified	NA 552	NA 100	2981	Insecticide	Oil - vegetable
phenolic resin		11A 100	2901	N/A	Oil - vegetable
Vegetable wax	8001-39-6	99501	1441	N/A	Oil - vegetable
Weed oil	NA 558	NA 101	1694	N/A	Oil - vegetable
Wheat germ oil	NA 559	NA 101	2988	N/A	Oil - vegetable
(1R-exo)-Brevicomin	20290-99-7	#####	NA 106	Pheromone	Pheromone
(4E-7Z)-4,7-Tridecadien-1-yl- acetate	NA 1428	NA 199	NA 198	Pheromone	Pheromone
(4Z-9Z)-7,9-Dodecadien-1-ol	NA 1412	NA 198	NA 197	Pheromone	Pheromone
(E)- 5-decen-1-ol	56578-18-8	78038	5315	Pheromone	Pheromone
(E)-10-Dodecenyl acetate	35153-09-4	NA 187	NA 186	Pheromone	Pheromone
(E)-11-Tetradecenyl acetate	33189-72-9	######	5022	Pheromone	Pheromone
(E)-2,6-dimethyl-2,6- octadienal	141-27-5	NA 21	3307	Pheromone	Pheromone
(E)-4-tridecen-1-yl-acetate	72269-48-8	#####	2199	Pheromone	Pheromone

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	77	
GHOMAGHI TAMIO	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
(E)-5-Decenol	56578-18-8	78038	3974	Dhonome	701
(E)-5-Decenyl acetate	38421-90-8	#####	3975	Pheromone Pheromone	Pheromone
(E)-6-dodecenyl acetate	29868-16-4	#####	NA 958	Pheromone	Pheromone
(E)-9-decen-1-ol	56578-18-8	78038	5071	Pheromone	Pheromone
(E)-9-dodecen-1-ol, acetate	35148-19-7	#####	2141	Pheromone	Pheromone
(E)-9-Tricosene	35857-62-6	NA 200	NA 199	Pheromone	Pheromone
(E)7-(Z)9-Dodecadienyl	NA 1413	NA 198	NA 197	Pheromone	Pheromone
acetate	141111	142175	14A 197	Fileromone	Pheromone
(E,Z)-3,13-octadecadien-1-ol	53120-26-6	#####	NA 955	Pheromone	Dhamana
acetate				1 IICIOIIIOIIE	Pheromone
(E/Z)-8-Dodecenyl acetate	NA 1415	NA 198	NA 197	Pheromone	Pheromone
(R,Z)-5-(1-decenyl) dihydro-2-	64726-91-6	#####	2096	Pheromone	Pheromone
(3H)-furanone					1 neromone
(Z)-(3,3-	26532-24-1	#####	5081	Pheromone	Pheromone
dimethylcyclohexylidene)aceta					1 1101 01110110
Idehyde					
(Z)-11-hexadecen-1-ol	56683-54-6	#####	NA 971	Pheromone	Pheromone
(Z)-11-Hexadecen-1-ol	56683-54-6	NA 193	NA 192	Pheromone	Pheromone
(Z)-11-hexadecenal	53939-28-9	#####	2126	Pheromone	Pheromone
(Z)-11-hexadecenyl acetate	60037-58-3	#####	NA 111	Pheromone	Pheromone
(Z)-11-Tetradecen-1-yl-acetate	20711-10-8	NA 199	NA 199	Pheromone	Pheromone
(Z)-11-Tetradecenyl acetate	20711-10-8	· #####	5023	Pheromone	Pheromone
(Z)-13-Octadecanol	NA 1423	NA 199	NA 198	Pheromone	Pheromone
(Z)-13-Octadecenal	58594-45-9	######	NA 111	Pheromone	Pheromone
(Z)-13-Octadecenyl acetate	34010-21-4	#####	5316	Pheromone	Pheromone
(Z)-2-(3,3-dimethyl cyclo	26532-23-0	######	5079	Pheromone	Pheromone
hexylidene)ethanol (Z)-3-Methyl-6-isopropenyl9-	771 4400			<u>'</u>	
decen-1-yl acetate	NA 1420	NA 198	NA 198	Pheromone	Pheromone
(Z)-3-Methyl-6-isopropenyl-	NTA 1410	- NA 400			
3,4-decadien-1-yl	NA 1419	NA 198	NA 198	Pheromone	Pheromone
(Z)-4-tridecen-1-yl-acetate	65954-19-0	#####	2220		
(Z)-5-Decenyl acetate	67446-07-5	NA 198	2200	Pheromone	Pheromone
(Z)-5-Dodecen-1-yl acetate	16676-96-3	. NA 187	NA 197	Pheromone	Pheromone
(Z)-6-dodecenyl acetate	16974-12-2	. NA 167 #####	NA 186	Pheromone	Pheromone
(Z)-6-Heneicosane-11-one	54844-65-4	#####	NA 957	Pheromone	Pheromone
(Z)-7-hexadecenal	56797-40-1	#####	NA 110	Pheromone	Pheromone
(Z)-7-Tetradecanol	NA 1427	NA 199	NA 972	Pheromone	Pheromone
(Z)-7-Tetradecenal	65128-96-3	NA 187	NA 198	Pheromone	Pheromone
(Z)-9-dodecenyl acetate	16974-11-1	#####	NA 186	Pheromone	Pheromone
(Z)-9-hexadecenal	56219-04-6	#####	2142	Pheromone	Pheromone
(Z)-9-tetradecen-1-ol	35153-15-2	#####	NA 973	Pheromone	Pheromone
(Z)-9-tetradecenal	53939-27-8		5618	Pheromone	Pheromone
(Z)-9-Tetradecenyl acetate	16725-53-4	##### NA 197	2209	Pheromone	Pheromone
(Z)-9-Tricosene	27519-02-4	NA 187	NA 186	Pheromone	Pheromone
(Z,E) 7,11-hexadecadien-1-ol	NA 1144		NA 883	Pheromone	Pheromone
acetate, other related	1417 1144	NA 168	91997	Pheromone	Pheromone
(Z,E)-7,11-hexadecadien-1-yl	51607-94-4	#####	1997	Dhor	701
acetate		ur <del>unt</del>	133/	Pheromone	Pheromone
(Z,E)-7,11-hexadecadien-1-yl	53042-79-8	#####	NA 933	Pheromone	Dho
acetate			11A 933	T TIET OTHORIG	Pheromone
(Z,E)-8,10-dodecadienyl	NA 1561	NA 227	NA 227	Pheromone	Pheromone
acetate			/	- moronione	r neromone
(Z,E)-9,11-Tetradecadien-1-yl	50767-79-8	NA 199	NA 198	Pheromone	Pheromone
					z woronnone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	. 330 1/100	Chemical Class
acetate					<del></del>
(Z,E)-9,12-tetradecadienyl acetate	31654-77-0	######	5617	Pheromone	Pheromone
(Z,Z) 7,11-hexadecadien-1-ol acetate, other related	NA 1145	NA 168	91998	Pheromone	Pheromone
(Z,Z) Octadienyl acetate	NA 1422	NA 199	NA 198	Pheromone	Pheromone
(Z,Z)-11,13-hexadecadienal	71317-73-2	711	5314	Pheromone	Pheromone
(Z,Z)-3,13-octadecadien-1-ol acetate	53120-27-7	######	NA 954	Pheromone	Pheromone
(Z,Z)-7,11-hexadecadien-1-yl acetate	52207-99-5	#####	1998	Pheromone	Pheromone
(Z,Z)-7,11-Hexadecadienyl acetate	52207-99-5	NA 198	NA 197	Pheromone	Pheromone
1,7-Dioxaspiro-5,5-undecane	180-84-7	NA 186	NA 186	Pheromone	Pheromone
1-Methylbutyl decanoate	55195-26-1	#####	NA 100	Pheromone	Pheromone
1-Octen-3-ol	3391-86-4	69037	4029	Pheromone,	Pheromone
				Fragrance, Insect Repellent, Dog and Cat Repellent	
11-(E)-Tetradecen-1-ol	35153-18-5	#####	5108.	Pheromone	Pheromone
11-(Z)-Tetradecen-1-ol	34010-15-6	#####	NA 109	Pheromone	Pheromone
2-cyclopenten-1-one, 2-	80-71-7	4049	NA 68	Pheromone,	Pheromone
hydroxy-3-methyl-				Fragrance	
2-methyl-7(R),8(S)-epoxy octadecane	29804-22-6	###### 	2165	Pheromone	Pheromone
3(S)-Methyl-6-isopropenyl-9- dodecadien-1yl acetate	NA 1535	NA 224	NA 224	Pheromone	Pheromone
3,7,11-trimethyl-2,6,10- dodecatriene-1-ol	4601-84-0	NA 983	2269	Pheromone	Pheromone
3-Methyl-2-cyclohexen-1-one	1193-18-6	<del>         </del>	NA 124	Insect Repellent, Pheromone	Pheromone
4-(p-acetoxyphenyl)-2- butanone	609379	#####	NA 106	Pheromone	Pheromone
4-Methyl-3-heptanol	14979-39-6	#####	NA 962	Pheromone	Pheromone
7,11-hexadecadien-1-ol, acetate		#####	NA 934	Pheromone	Pheromone
7,8-Epoxi-2-methyl-octadecane 8-dodecene-1-ol, other related	NA 1417	NA 198	NA 197	Pheromone	Pheromone
9-tetradecen-1-ol, formate, (Z)-	NA 1150	NA 168	92253	Pheromone	Pheromone
Acetaldehyde,(3,3-dimethylcyclohexylidene)-,(E)	56218-79-2 26532-25-2	#####	NA 967 5080	Pheromone Pheromone	Pheromone Pheromone
beta-Farnesene	18794-84-8	#####	NA 110	Pheromone	Pheromana
Cis-11-tetradecenyl acetate	20711-10-8	#####	5038	Pheromone	Pheromone Pheromone
Distilled cubeb oil	8007-87-2	#####	NA 960	Pheromone	Pheromone
Dodecadienal	NA 1547	NA 226	NA 225	Pheromone	Pheromone
E,E-8,10-dodecadien-1-ol	33956-49-9	#####	1851	Pheromone	Pheromone
E-3,3-dimethyl-delta,alpha- cyclohexane ethanal	NA 951	NA 315	2193	Pheromone	Pheromone
E-8-dodecene	NA 1532	NA 224	NA 224	Pheromone	Pheromone
E-8-dodecenyl acetate	38363-29-0	#####	2252	Pheromone	Pheromone
Farnesol	4602-84-0	#####	2564	Pheromone	Pheromone
Frontalin	28401-39-0	#####	NA 985	Pheromone	Pheromone
Frontalin + alpha-pinene	12701-72-3	#####	NA 986	Pheromone	Pheromone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Cl
		Code	Code	OSC Type	Chemical Class
mixture		-			<del></del>
German cockroach pheromone	NA 871	29028	5132	Pheromone	Pheromone
Isoamyl acetate	123-92-2	NA 167	1422	Fragrance	Pheromone Pheromone
Isomate LBAM	NA 1438	NA 213	NA 212	Pheromone	
Isomate OFM Rosso	NA 1426	NA 213	NA 212	Pheromone	Pheromone
Lauryl alcohol	112-53-8	1509	2343	Pheromone,	Pheromone
		1305	2545	Adjuvant	Pheromone,
Luretape (Grandlure)	11104-05-5	#####	NA 923	Pheromone	Alcohol/Ether
Methyl-trans-6-nonenoate	NA 1421	NA 199	NA 198	Pheromone	Pheromone
Multilure	60018-97-5	#####	NA 963	Pheromone	Pheromone
Multistriatin	59014-03-8	#####	NA 961		Pheromone
Muscalure	27519-02-4	#####	1858	Pheromone	Pheromone
Myrcene	123-35-3	#####		Pheromone	Pheromone
Nerolidol	7212-44-4		2189	Pheromone	Pheromone
Nerolidol	7212-44-4	#####	2268	Pheromone	Pheromone
Pentyl valerate	2173-56-0	#####	2701	Pheromone	Pheromone
Periplanone B		#####	1809	Pheromone	Pheromone
Pherodim	61228-92-0	#####	2766	Pheromone	Pheromone
Pronumone	NA 1424	NA 199	NA 198	Pheromone	Pheromone
Serricornin	NA 1425	NA 199	NA 198	Pheromone	Pheromone
Tetradecanal	NA 1343	NA 191	NA 190	Pheromone	Pheromone
	124-25-4	#####	NA 975	Pheromone	Pheromone
Trans-11-tetradecenyl acetate	33189-72-9	#####	5039	Pheromone	Pheromone
trans-6-Nonen-1-ol	NA 1404	NA 197	NA 197	Pheromone	Pheromone
Trimedlure	12002-53-8	#####	NA 199	Pheromone	Pheromone
Z-2-isopropenyl-1-methyl cyclobutane ethanol	26532-22-9	#####	2190	Pheromone	Pheromone
Z-3,3-dimethyl-delta,alpha- cyclohexane ethanal	NA 952	NA 316	2192	Pheromone	Pheromone
Z-3,3-dimethyl-delta,beta- cyclohexane ethanol	NA 706	NA 129	2191	Pheromone	Pheromone
Z-8-dodecene	NA 1531	NA 224	NA 224	Pheromone	D1
Z-8-dodecenol	40642-40-8	#####	2253	Pheromone	Pheromone
Z-8-dodecenyl acetate	28079-04-1	#####	2251	Pheromone	Pheromone
7-(diethyl amino)-4-methyl	91-44-1	NA 341	3146	Rodenticide	Pheromone
coumarin		1411541	3140	Rodenticide	Coumarin
Brodifacoum	56073-10-0	#####	2049	Rodenticide	
Bromadiolone	28772-56-7	#####	2135	Rodenticide	Coumarin
Coumachlor	81-82-3	#####	NA 126	Rodenticide	Coumarin
Coumafuryl	117-52-2	86001	298	Rodenticide	Coumarin
Coumafuryl, sodium salt	34490-93-2	86004	299	Rodenticide	Coumarin
Coumarin	91-64-5	#####	NA 102		Coumarin
Coumatetralyl	5836-29-3	#####		Rodenticide	Coumarin
Difenacoum	56073-07-5	#####	NA 153	Rodenticide	Coumarin
Flocoumafen	90035-08-8		NA 970	Rodenticide	Coumarin
Potassium warfarin	2610-86-8	NA 182	NA 181	Rodenticide	Coumarin
Pyranocoumarin	NA 1431	86005	NA 836	Rodenticide	Coumarin
Warfarin	81-81-2	NA 199	NA 199	Rodenticide	Coumarin
Warfarin, sodium salt		86002	621	Rodenticide	Coumarin
2-isovaleryl 1-1,3-indandione	129-06-6	86003	1184	Rodenticide	Coumarin
2-isovaleryl 1-1,3-indandione,	83-28-3	67702	1435	Rodenticide	1,3-Indandione
calcium salt	23710-76-1	67706	1736	Rodenticide	1,3-Indandione
2-isovaleryl-1,3-indandione, sodium salt	53404-57-2	67709	NA 596	Rodenticide	1,3-Indandione
Chlorophacinone	3691-35-8	67707	1625	Rodenticide	1,3-Indandione
			1		-,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		Onomical Class
Diphacinone	82-66-6	67701	225	Rodenticide	1,3-Indandione
Diphacinone, sodium salt	42721-99-3	67705	1636	Rođenticide	1,3-Indandione
Pindone	83-26-1	67703	489	Rodenticide	1,3-Indandione
Pindone, calcium salt	53404-72-1	67708	NA 595	Rodenticide	1,3-Indandione
Pindone, sodium salt	6120-20-3	67704	1305	Rodenticide,	1,3-Indandione
				Bird Repellent	
4-Hydroxymethyl	NA 1173	NA 177	NA 165	Breakdown	2,6-Dinitroaniline
pendimethalin	1051			product	
Benfluralin	1861-40-1	84301	53	Herbicide	2,6-Dinitroaniline
Butralin	33629-47-9	#####	1756	Herbicide	2,6-Dinitroaniline
Dinitramine	29091-05-2	#####	1683	Herbicide	2,6-Dinitroaniline
Dipropalin Ethalfluralin	5332	#####	NA 145	Herbicide	2,6-Dinitroaniline
	55283-68-6	#####	2166	Herbicide	2,6-Dinitroaniline
Fluazinam Fluchloralin	79622-59-6	#####	3898	Fungicide	2,6-Dinitroaniline
Flumetralin	33245-39-5	#####	1848	Herbicide	2,6-Dinitroaniline
Flumetrain	62924-70-3	#####	5085	Plant Growth	2,6-Dinitroaniline
Isopropalin	33820-53-0	#####	1601	Regulator	
N,N-Bis(2-chloroethyl)-4-	26389-78-6	###### #####	1681	Herbicide	2,6-Dinitroaniline
methyl-2,6-dinitroaniline	20309-70-0	######	NA 135	N/A	2,6-Dinitroaniline
Nitralin	4726-14-1	37601	490	Herbicide	2 C D: 11 111
Oryzalin	19044-88-3	#####	1868	Herbicide	2,6-Dinitroaniline
Pendimethalin	40487-42-1	#####	1929	Herbicide	2,6-Dinitroaniline
Prodiamine	29091-21-2	#####	2236	Herbicide	2,6-Dinitroaniline
Prodiamine, other related	NA 1149	NA 168	92236	Herbicide	2,6-Dinitroaniline
Profluralin	26399-36-0	#####	1897	Herbicide	2,6-Dinitroaniline
Profluralin, other related	NA 1141	NA 167	91897	Herbicide	2,6-Dinitroaniline
Trifluralin	1582-09-8	36101	597	Herbicide	2,6-Dinitroaniline
1-(3-	51971-67-6	#####	NA 110	N/A	2,6-Dinitroaniline
chlorophthalimido)cyclohexane			1121110	IVA	Carboxamide
carboxamide					
Allidochlor	93-71-0	19301	114	Herbicide	Amide
Allidochlor	202-270-7	NA 210	NA 210	Herbicide	Amide
Ammonium benzadox	5251-79-6	98201	NA 858	Herbicide	Amide
Beflubutamid	113614-08-7	NA 230	NA 230	Herbicide	Amide
Benzadox	5251-93-4	#####	NA 132	Herbicide	Amide
Benzipram	35256-86-1	#####	NA 133	Herbicide	Amide
Bromobutide	74712-19-9	NA 203	NA 203	Herbicide	Amide
Carboxin	5234-68-4	90201	1755	Fungicide	Carboxamide
Chlorthiamid	1918-13-4	#####	NA 139	Herbicide	Amide
Cisanilide	34484-77-0	#####	NA 144	Herbicide	Carboxamide
Cyclafuramide	34849-42-8	#####	NA 132	Fungicide	Carboxamide
Cyprazole	42089-03-2	#####	NA 132	Herbicide	Amide
Dimethenamid	87674-68-8	#####	5112	Herbicide	Amide
Diphenamid	957-51-7	36601	226	Herbicide	Amide
Epronaz	59026-08-3	NA 231	NA 231	Herbicide	Amide
Etnipromid	76120-02-0	NA 231	NA 231	Herbicide	Amide
Fenfuram	24691-80-3	NA 188	NA 187	Fungicide	Carboxamide
Fentrazamide	158237-07-1	NA 232	NA 231	Herbicide	Amide
Flupoxam	119126-15-7	NA 188	NA 188	Herbicide	Amide
Furmecyclox (Xyligen B)	60568-05-0	#####	NA 18	Fungicide	Carboxamide
Halosafen	77227-69-1	NA 229	NA 229	Herbicide	Amide, Nitrophenyl
Isocarbamide	20070 40 7	77. 455			ether
Isocaroamide	30979-48-7	NA 183	NA 182	Herbicide	Amide

Chemical Name	CAGNI	TTG TDA TO	10.		
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Isoxaben	92559 50 7	Code	Code		
Methfuroxam	82558-50-7	#####	2289	Herbicide	Amide
Metsulfovax	28730-17-8	#####	NA 949	Fungicide	Carboxamide
	21452-18-6	NA 189	NA 188	Fungicide	Carboxamide
Napropamide	15299-99-7	#####	1728	Herbicide	Amide
Naptalam	132-66-1	30702	2998	Herbicide	Amide
Naptalam, sodium salt	132-67-2	30703	437	Herbicide	Amide
Nitrofurazone (not subject to	59-87-0	#####	NA 128	N/A	Carboxamide
FIFRA: 8709-e pm 24)					
Oxycarboxin	5259-88-1	90202	1434	Fungicide	Carboxamide
p-Benzoquinone	61566-21-0	#####	NA 133	N/A	Carboxamide
semicarbazone	40.000				
Pethoxamid	106700-29-2	NA 233	NA 233	Herbicide	Amide
Propyzamide	23950-58-5	#####	694	Herbicide	Amide
Propyzamide metabolite	NA 1048	NA 155	4093	Breakdown	Amide
				product	
Quinonamid	27541-88-4	NA 210	NA 209	Herbicide	Amide
2-Hydroxy alachlor	NA 943	NA 183	2602	Breakdown	Chloroacetanilide
2 4 5 + 1				product	
3,4,5-tribromo salicylanilide,	NA 1122	NA 165	90833	Microbiocide	Anilide
other related 3,5-dibromosalicylanilide	0.555.50.0				
	2577-72-2	77405	1256	Microbiocide	Anilide
5,4-dibromosalicylanilide	NA 1024	NA 122	1071	Microbiocide	Anilide
Aatram (propachlor with	8070-76-6	80816	NA 781	Herbicide	Triazine,
atrazine) (019101+080803) Acetochlor	24056 00 4				Chloroacetanilide
	34256-82-1	#####	2349	Herbicide	Chloroacetanilide
Alachlor	15972-60-8	90501	678	Herbicide	Chloroacetanilide
Benodanil Detail	15310-01-7	#####	NA 154	Fungicide	Anilide
Butachlor	23184-66-9	#####	4056	Herbicide	Chloroacetanilide
Butenachlor	87310-56-3	NA 206	NA 206	Herbicide	Chloroacetanilide
Clomeprop	84496-56-0	NA 204	NA 203	Herbicide	Anilide
Cyprofuram	69581-33-5	NA 186	NA 185	Fungicide	Anilide
Cypromid	2759-71-9	26101	178	Herbicide	Anilide
Delachlor	24353-58-0	#####	NA 132	Herbicide	Chloroacetanilide
Diethatyl-ethyl	38727-55-8	#####	1995	Herbicide	Chloroacetanilide
Diflufenican	83164-33-4	NA 184	NA 183	Herbicide	Anilide
Dimethachlor	50563-36-5	NA 184	NA 183	Herbicide	Chloroacetanilide
<u>Etobenzanid</u>	79540-50-4	NA 229	NA 228	Herbicide	Anilide
Fenasulam	78357-48-9	NA 231	NA 231	Herbicide	Anilide
Flufenacet	142459-58-3	#####	5293	Herbicide	Anilide
Flufenican	NA 1568	NA 234	NA 234	Herbicide	Anilide
Flutolanil	66332-96-5	#####	2305	Fungicide	Anilide
Mefenacet	73250-68-7	NA 189	NA 188	Herbicide	Anilide
Mefluidide	53780-34-0	#####	5082	Herbicide,	Anilide
				Plant Growth	Aminde
				Regulator	
Mefluidide, diethanolamine salt	53780-36-2	#####	1955	Herbicide	Anilide
Mefluidide, potassium salt	83601-83-6	#####	5083	Herbicide	Anilide
Mepronil	55814-41-0	NA 189	NA 188	Fungicide	Anilide
Metazachlor	67129-08-2	NA 184	NA 183	Herbicide	Chloroacetanilide
Metolachlor	51218-45-2	#####	1996	Herbicide	Chloroacetanilide
Metolachlor, (S)	87392-12-9	#####	5133	Herbicide	Chloroacetanilide
Monalide	7287-36-7	#####	NA 134	Herbicide	Anilide
Naproanilide	52570-16-8	NA 233	NA 232	Herbicide	Anilide
Ofurace	58810-48-3	NA 189	NA 188	Fungicide	
	L		-121 100	- ungiciue	Anilide

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	II- T	T 69 - 1 - 1 - 1 - 1
	OF IO I TUMBEL	Code	Code	<u>Use Type</u>	Chemical Class
Oxadixyl	77732-09-3	#####	3539	Fungicide	A 111.4
Perfluidone	37924-13-3	#####	1895	Herbicide	Anilide
Perfluidone, diethanolamine	NA 991	NA 671	1896	Herbicide	Anilide
salt		1010/1	1050	Heroreide	Anilide
Pretilachlor	51218-49-6	NA 184	NA 184	Herbicide	Chloroacetanilide
Propachlor	1918-16-7	19101	511	Herbicide	Chloroacetanilide
Propanil	709-98-8	28201	503	Herbicide	Anilide
Propisochlor	86763-47-5	NA 233	NA 233	Herbicide	Chloroacetanilide
Prynachlor	21267-72-1	#####	NA 138	Herbicide,	Chloroacetanilide
	_		1150	Plant Growth	Chioroaceiamilde
				Regulator	
Pyracarbolid	24691-76-7	NA 210	NA 209	Fungicide	Anilide
Salicylanilide	87-17-2	77407	450	Fungicide,	Anilide
				Microbiocide	2 111111111
Sodium salicylanilide	251930	#####	NA 145	Fungicide	Anilide
Thenylchlor	96491-05-3	NA 229	NA 229	Herbicide	Chloroacetanilide
Triclocarban	101-20-2	27901	844	N/A	Anilide
Benzoylprop	22212-56-2	NA 182	NA 181	Herbicide	Arylalanine
Benzoylprop ethyl	22212-55-1	#####	NA 147	Herbicide	Arylalanine
Benzoylprop-ethyl	33878-50-1	NA 206	NA 205	Herbicide	Arylalanine
Flamprop .	58667-63-3	NA 188	NA 187	Herbicide	Arylalanine
Flamprop-isopropyl	52756-22-6	#####	NA 154	Herbicide	Arylalanine
Flamprop-M-isopropyl	57973-67-8	#####	NA 154	Herbicide	Arylalanine
Flamprop-M-methyl	57973-66-7	#####	NA 104	Herbicide	Arylalanine
Flamprop-methyl	52756-25-9	#####	NA 154	Herbicide	Arylalanine
Chlorazifop	60074-25-1	NA 231	NA 230	Herbicide	Aryloxyphenoxy
					propionic acid
Clodinafop	114420-56-3	NA 182	NA 182	Plant Growth	Aryloxyphenoxy
Clodinafop-propargyl	105510.05.0			Regulator	propionic acid
Clodinatop-propargyi	105512-06-9	#####	NA 163	Plant Growth	Aryloxyphenoxy
Clofop	26129-32-8	NIA 207	371.006	Regulator	propionic acid
Сююр	20129-32-8	NA 207	NA 206	Herbicide	Aryloxyphenoxy
Cyhalofop	122008-78-0	NA 204	NA 203	TY 1	propionic acid
ушилогор	122000-78-0	. IVA 204	NA 203	Herbicide	Aryloxyphenoxy
Cyhalofop butyl	122008-85-9	NA 215	5748	Herbicide	propionic acid
		101215	3/46	Heibicide	Aryloxyphenoxy
Diclofop	40843-25-2	#####	NA 912	Herbicide	propionic acid
	1		101712	Ticibicide	Aryloxyphenoxy propionic acid
Diclofop-methyl	51338-27-3	#####	2034	Herbicide	Aryloxyphenoxy
					propionic acid
Fenoxaprop-ethyl	82110-72-3	NA 201	NA 200	Herbicide	Aryloxyphenoxy
(stereochemistry unspecified)					propionic acid
Fenoxaprop-P (+)	71283-80-2	#####	5123	Herbicide	Aryloxyphenoxy
P. C. C.					propionic acid
Fenoxaprop-P (+/-)	66441-23-4	#####	2311	Herbicide	Aryloxyphenoxy
Fonoverson D ethal	112152 12 2				propionic acid
Fenoxaprop-P-ethyl	113158-40-0	NA 220	NA 219	Herbicide	Aryloxyphenoxy
Fenthiaprop (racemic)	05721 12 2	274.007	371.00		propionic acid
1 chimaprop (racernic)	95721-12-3	NA 207	NA 207	Herbicide	Aryloxyphenoxy
Fenthiaprop (unstated	73519-50-3	NA 218	NIA 217	TT-1:::	propionic acid
stereochemistry)	15515-50-5	1747 219	NA 217	Herbicide	Aryloxyphenoxy
Fenthiaprop-ethyl (racemic)	93921-16-5	NA 218	NA 217	Herbicide	propionic acid
	20221 10-5	141,210	NA 21/	recording	Aryloxyphenoxy
					propionic acid

Chemical Name	CAS Number	IIIC EDA DO	ICA OL	T ***	1 = -
CHOINCAI TVAINC	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Fenthiaprop-ethyl (unstated	66441-11-0	NA 218	Code NA 217	Herbicide	
stereochemistry)	00141-11-0	117.216	IVA 217	Herbicide	Aryloxyphenoxy
Fluazifop	69335-91-7	NA 194	NA 193	Herbicide	propionic acid
			142175	Herorcide	Aryloxyphenoxy propionic acid
Fluazifop-butyl	69806-50-4	#####	2186	Herbicide	Aryloxyphenoxy
				120101010	propionic acid
Fluazifop-P-butyl	79241-46-6	#####	NA 995	Herbicide	Aryloxyphenoxy
			1		propionic acid
Fluazifop-P-butyl	83066-88-0	NA 228	NA 228	Herbicide	Aryloxyphenoxy
	<u> </u>				propionic acid
Haloxyfop (unstated	69806-34-4	#####	NA 100	Herbicide	Aryloxyphenoxy
stereochemistry)					propionic acid
Haloxyfop-etotyl (unstated	87237-48-7	NA 200	NA 199	Herbicide	Aryloxyphenoxy
stereochemistry)					propionic acid,
Haloxyfop-methyl (unstated	600906 40 2	3111111111	371 12		Glycol Ether
stereochemistry)	690806-40-2	<del>}}                                   </del>	NA 19	Herbicide	Aryloxyphenoxy
Haloxyfop-R	72619-32-0	NA 191	NTA 100	TT 1	propionic acid
individual in the second of th	72013-32-0	NA 191	NA 190	Herbicide	Aryloxyphenoxy
Propaguizafop	111479-05-1	NA 185	NA 184	· Uoshisid-	propionic acid
- a Parquesia	1221/5-05-1	147 103	IVA 104	Herbicide	Aryloxyphenoxy
Quizalofop	76578-12-6	NA 190	NA 189	Herbicide	propionic acid
			141 105	recipience	Aryloxyphenoxy propionic acid
Quizalofop-ethyl	76578-14-8	#####	2226	Herbicide	Aryloxyphenoxy
;				2101010100	propionic acid
Quizalofop-P	94051-08-8	NA 185	NA 184	Herbicide	Aryloxyphenoxy
					propionic acid
Quizalofop-P-ethyl	100646-51-3	NA 212	NA 211	Herbicide	Aryloxyphenoxy
Ovinala farant	110000				propionic acid
Quizalofop-p-tefuryl	119738-06-6	NA 202	NA 202	Herbicide	Aryloxyphenoxy
Trifop	50504.74.4	371.00			propionic acid
·	58594-74-4	NA 234	NA 233	Herbicide	Aryloxyphenoxy
2,5-Dichlorobenzoic acid	50-79-3	NA 224	NTA 004		propionic acid
2,5-Dichlorobenzoic acid	2905-69-3	NA 224 NA 224	NA 224	Fungicide	Benzoic acid
methyl ester	2903-09-3	NA 224	NA 224	Fungicide	Benzoic acid
3,5-dichlorobenzoic acid	51-36-5	NA 156	4066		
4'-hydroxy-m-phenoxy benzoic		NA 176	2609	N/A	Benzoic acid
acid	33003-12-4	11/1/0	2009	Fungicide, Microbiocide	Benzoic acid
4-hydroxy benzoic acid	99-96-7	NA 200	NA 199	N/A	Domesia está
5-hydroxy-dicamba	NA 840	NA 156	4065	Herbicide,	Benzoic acid
		141150	4005	Breakdown	Benzoic acid
			}	product	
Butyl paraben	94-26-8	61205	NA 496	Fungicide,	Benzoic acid
				Microbiocide	Delizoie aciu
Chloramben	133-90-4	29901	2184	Herbicide	Benzoic acid
Chloramben, ammonium salt	1076-46-6	29902	831	Herbicide	Benzoic acid
Chloramben, ammonium salt,	NA 1121	NA 165	90831	Herbicide	Benzoic acid
other related			· · · · ·		Doneout acid
Dicamba	1918-00-9	29801	200	Herbicide	Benzoic acid
Dicamba with 2,4-D	8068-77-7	29807	NA 219	Herbicide	Benzoic acid
Dicamba with 2,4-D & Silvex	8073-53-8	29808	NA 220	Herbicide	Benzoic acid
Dicamba, aluminium salt	NA 1215	#####	NA 170	Herbicide	Benzoic acid
Dicamba, butoxyethyl ester	NA 1477	NA 220	NA 219	Herbicide	Benzoic acid
Dicamba, diethanolamine salt	25059-78-3	29803	780	Herbicide	Benzoic acid
Dicamba, diglycolamine salt	104040-79-1	#####	5007	Herbicide	Benzoic acid
		· · · · · · · · · · · · · · · · · · ·			Donzoic acid

Dicamba, dimethylamine salt   2300-66-5   29802   849   Herbicide   Benzoic acid   Dicamba, dimethylamine salt   NA 1123   NA 165   99849   Herbicide   Benzoic acid   Benzoic acid   Dicamba, sinethylamine salt   NA 1123   NA 165   99849   Herbicide   Benzoic acid   Benzoic acid   Dicamba, methyl ester   55871-02-8   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Dicamba, methyl ester   55871-80   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Bicamba, monethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Benzoic acid   Bicamba, monethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Bicamba, monethanolamine   Salt   Sa	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Igo Tymo	Chaminal Of
Dicamba, dimethylamine salt   2300-66-5   23802   849   Herbicide   Benzoic acid   Dicamba, inspropylamine salt   NA 1123   NA 165   90849   Herbicide   Benzoic acid   Dicamba, isopropylamine salt   55871-02-8   #####   5098   Herbicide   Benzoic acid   Benzoic acid   Dicamba, monoethanolamine   53404-28-7   29804   1829   Herbicide   Benzoic acid	<u> </u>	Orio Ivanioci			Use Type	Chemical Class
Dicamba, dimethylamine salt other related   Dicamba, isopropylamine salt   Dicamba, isopropylamine salt   Dicamba, isopropylamine salt   Dicamba, isopropylamine salt   S5871-02-8   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Dicamba, methyl ester   G597-78-0   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Dicamba, methyl ester   G597-78-0   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Benzoic acid   Benzoic acid   Benzoic acid   Benzoic acid   Benzoic acid   Benzoic acid   Dicamba, monethanolamine   Salt   NA 140   NA 167   91829   Herbicide   Benzoic acid   Dicamba, potassium salt   10007-85-9   #####   5110   Herbicide   Benzoic acid   Benzoic acid   Dicamba, potassium salt   10007-85-9   #####   5110   Herbicide   Benzoic acid   Benzoic acid   Dicamba, sodium salt   Dic	Dicamba, dimethylamine salt	2300-66-5			Herbicide	Benzoic acid
Dicamba, sopropylamine salt   55871-02-8   #####   5098   Herbicide   Benzoic acid   Dicamba, methyl ester   6597-78-0   ####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Dicamba, monoethanolamine salt   53404-28-7   29804   1829   Herbicide   Benzoic acid   Benzoic			<del></del>			
Dicamba, methyl ester					110101010	Delizote acid
Dicamba, menthyl ester		55871-02-8	#####	5098	Herbicide	Benzoic acid
Dicamba, monoethanolamine salt, other related   NA 1084   NA 167   91829   Herbicide   Benzoic acid		6597-78-0	#####	NA 146	Herbicide	
Dicamba, monoethanolamine   Salt, other related   Dicamba, other related   Dicamba, other related   Dicamba, sodium salt   10007-85-9   #####   \$110   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29805   5057   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29805   1113   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29805   1113   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29805   1113   Herbicide   Benzoic acid   Dicamba, strictanolamine   Saltanolamine	Dicamba, monoethanolamine	53404-28-7	29804			
Salt, other related						
Dicamba, other related   NA 1084   NA 161   90200   Herbicide   Benzoic acid   Dicamba, potassium salt   10907-85-9   #####   5110   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Dichlorobenzoic acid   NA 1383   NA 195   NA 194   Fungicide   Benzoic acid   methylester   Diethanolamine 3-amino-2,5-dichlorobenzoate   53404-16-3   29904   NA 222   Herbicide   Benzoic acid   Methyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Methyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Methyl paraben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide	•	NA 1140	NA 167	91829	Herbicide	Benzoic acid
Dicamba, potassium salt						
Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Benzoic acid   Mal 1383   NA 195   NA 194   Fungicide   Benzoic acid   Methylester   Diethanolamine 3-amino-2,5-dichlorobenzoate   7491-21-6   39302   2003   Insecticide, Microbiocide   Benzoic acid   Benzoicacid   Microbiocide   Benzoicacid   Microbiocide   Benzoicacid   Microbiocide   Benzoicacid   Microbiocide   Benzoicacid   Microbiocide   Benzoicacid   Microbiocide   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid   Benzoicacid					Herbicide	<u>.                                    </u>
Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Dichlorobenzoic acid   MA 1383   NA 195   NA 194   Fungicide   Benzoic acid   Microbiocide   Benzoic acid   Benzoic acid   Microbiocide   Benzoic acid   Benzoic acid   Microbiocide   Benzoic acid   Benzoicacid   Benzoicac			<del></del>			Benzoic acid
Dichlorobenzoic acid methylester Diethanolarnine 3-amino-2,5-dichlorobenzoate Dodecylamine salicylate Dodecylamine salicylate Dodecylamine salicylate Dodecylamine salicylate Dodecylamine salicylate Dodecylamine salicylate  T491-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-6  T491-21-21-21  T491-21-21-21  T491-21-21-21  T491-21-21-21  T491-21-21-21  T491-21-21-21  T491-21-21-21  T491-21-21  T491-21-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21-21  T491-21  T491-21  T491-21  T491-21  T491-21  T491-21  T						Benzoic acid
Diethanolamine 3 - amino-2,5-   53404-16-3   29904   NA 222   Herbicide   Benzoic acid   Dodecylamine salicylate   7491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Methyl paraben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Micro						Benzoic acid
Diethanolamine 3-amino-2,5-dichlorobenzoate   Dodecylamine salicylate   T491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Propyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Methyl paraben   18-56-9   76603   3231   Insecticide, Fungicide, Microbiocide   Benzoic acid   Methyl chloramben   T286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Benzoic acid   Propyl paraben, calcium salt   83542-69-2   61206   NA 497   Fungicide, Microbiocide   Benzoic acid   Propyl paraben, sodium salt   35285-69-9   61204   NA 495   Fungicide, Microbiocide   Benzoic acid   Salicylic acid   69-72-7   76602   1170   Insecticide, Microbiocide   Benzoic acid   Propyl paraben   2307-49-5   17301   NA 151   Herbicide   Benzoic acid   Benzoic acid   Pricamba   2307-49-5   17301   NA 151   Herbicide   Benzoic acid   Benzoylurea   Flucycloxuron   113036-88-7   ####   NA 109   Insecticide   Benzoylurea   Flucycloxuron   110363-88-7   #####   NA 109   Herbicide   Benzoylurea   Benzoylurea   Hexaflumuron   8449-06-3   #####   NA 101   Insecticide   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylurea   Benzoylur		' NA 1383	NA 195	NA 194	Fungicide	Benzoic acid
Dodecylamine salicylate   7491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   5026-62-0   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Fun		53404 16 2	20004	374 000	77	
Dodecylamine salicylate	1	33404-10-3	29904	NA 222	Herbicide	Benzoic acid
Ethyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Homosalate   118-56-9   76603   3231   Insecticide, Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid )   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Herbicide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Fungicide, Microbiocide   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Fungicide, Microbiocide   Fungicide, Microbiocide   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Fungicide, Microbiocide   Fungicide		7491-21-6	30302	2002	Tenneticida	D 1 11
Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Monomethylammonium   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide		7-771-21-0	39302	2003		Benzoic acid
Homosalate						
Homosalate	Ethyl paraben	120-47-8	61202	3204		Renzoic acid
Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Microbiocide   Methyl paraben, sodium salt   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Microbiocide   Microbiocide   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Propyl paraben, calcium salt   83542-69-2   61206   NA 497   Fungicide, Microbiocide   Fungicide, Microbiocide   Microbiocide   Microbiocide   Microbiocide   Microbiocide   Microbiocide   Salicylic acid   69-72-7   76602   1170   Insecticide, Fungicide, Microbiocide   Microbiocide						Donzolo acid
Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid	Homosalate	118-56-9	76603 ·	3231	Insecticide,	Benzoic acid
Methyl chloramben         7286-84-2         29905         NA 223         Herbicide         Benzoic acid           Methyl paraben         99-76-3         61201         1005         Fungicide, Microbiocide Microbiocide         Benzoic acid           Methyl paraben, calcium salt         40167-95-1         61208         NA 499         Fungicide, Microbiocide Microbiocide         Benzoic acid           Methyl paraben, sodium salt         5026-62-0         61207         NA 498         Fungicide, Microbiocide Microbiocide         Benzoic acid           Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)         25182-03-0         29903         NA 221         Herbicide         Benzoic acid           Propyl paraben, calcium salt         83542-69-2         61203         2841         Fungicide, Microbiocide         Benzoic acid           Propyl paraben, sodium salt         35285-69-9         61204         NA 495         Fungicide, Microbiocide         Benzoic acid           Salicylic acid         69-72-7         76602         1170         Insecticide, Fungicide, Microbiocide         Benzoic acid           Sodium 3-amino-2,5-dichlorobenzoate         1954-81-0         29906         NA 224         Herbicide         Benzoic acid           Tricamba         2307-49-5         17301         NA 151         Herbicide						
Methyl paraben 99-76-3 61201 1005 Fungicide, Microbiocide  Methyl paraben, calcium salt 40167-95-1 61208 NA 499 Fungicide, Microbiocide  Methyl paraben, sodium salt 5026-62-0 61207 NA 498 Fungicide, Microbiocide  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid  Anisuron 2689-43-2 ##### NA 138 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 ##### 1992 Insecticide Benzoylurea  Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea  Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea  Benzoylurea  Benzoic acid  Benzoic acid  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea						
Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid						Benzoic acid
Methyl paraben, calcium salt  Methyl paraben, sodium salt  Methyl paraben, sodium salt  So26-62-0  Methyl paraben, sodium salt  So26-62-0  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben  Propyl paraben, calcium salt  So285-69-9  Sodium 3-amino-2,5-dichlorobenzoicacid  Solicylic acid  Solicylic acid  Solicylic acid  Solicylic acid  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoicacid)  Propyl paraben, calcium salt  Solicylic acid  Solicylic acid  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoicacid)  Propyl paraben, calcium salt  Solicylic acid  Solicylic acid  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoide)  Solicylic acid  Monomethylammonium chloramben (3-amino-2)  Solicylic acid  Solicylic acid  Molorobiocide  Molorobiocide  Molorobiocide  Benzoic acid  Microbiocide  thyl paraben	99-76-3	61201	1005		Benzoic acid	
Methyl paraben, sodium salt    Soze-62-0	Mathyl paraban galainm salt	40167.05.1	61000	274 400		
Methyl paraben, sodium salt  5026-62-0  61207  NA 498  Fungicide, Microbiocide  Benzoic acid  Monomethylammonium chloramben (3-amino-2,5- dichlorobenzoic acid)  Propyl paraben  94-13-3  61203  2841  Fungicide, Microbiocide  Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Propyl paraben, sodium salt  35285-69-9  61204  NA 495  Fungicide, Microbiocide  Propyl paraben, sodium salt  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Benzoic acid  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoylurea  Diflubenzuron  35367-38-5  #####  NA 138  Fungicide, Microbiocide  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Benzoylurea  Flucycloxuron  101463-69-8  #####  NA 901  Insecticide  Benzoylurea	wiedryf paraoen, calcium sait	40107-95-1	61208	NA 499		Benzoic acid
Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide Benzoic acid Microbiocide  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 ##### NA 184 Herbicide Benzoylurea  Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea  Flucycloxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea  Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea  Benzoylurea	Methyl paraben, sodium salt	5026-62-0	61207	NIA 400		
Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben  94-13-3  61203  2841  Fungicide, Microbiocide  Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Propyl paraben, sodium salt  35285-69-9  61204  NA 495  Fungicide, Microbiocide  Propyl paraben, sodium salt  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Herbicide  Benzoic acid  Benzoic acid  Herbicide  Benzoic acid  Herbicide  Benzoic acid  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron  101463-69-8  #####  NA 901  Insecticide  Benzoylurea	,,	5020 02 0	01207	11/1/4/20	Microbiocide	Benzoic acid
chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 #### NA 138 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 #### 1992 Insecticide Benzoylurea  Flucycloxuron 113036-88-7 #### NA 109 Herbicide Benzoylurea  Flucycloxuron 101463-69-8 #### NA 901 Insecticide Benzoylurea  Hexaflumuron 86479-06-3 #### NA 184 NA 183 Insecticide Benzoylurea  Benzoylurea  Benzoic acid  Benzoic acid  Benzoylurea	Monomethylammonium	25182-03-0	29903	NA 221		Benzoic acid
Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- 1954-81-0 29906 NA 224 Herbicide Benzoic acid Microbiocide  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 ##### NA 138 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea  Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea  Hexaflumuron 86479-06-3 ##### NA 183 Insecticide Benzoylurea  Benzoylurea					1101010100	Denzoic acid
Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Propyl paraben, sodium salt  35285-69-9  61204  NA 495  Fungicide, Microbiocide  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoylurea  Diflubenzuron  35367-38-5  #####  NA 109  Herbicide  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 901  Insecticide  Benzoylurea						
Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Sodium 3-amino-2,5-  dichlorobenzoate  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Anisuron  13036-88-7  #####  NA 138  Herbicide  Benzoylurea	Propyl paraben	94-13-3	61203	2841		Benzoic acid
Propyl paraben, sodium salt   35285-69-9   61204   NA 495   Fungicide, Microbiocide   Benzoic acid					Microbiocide	
Propyl paraben, sodium salt  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  Diflubenzuron  35367-38-5  Flucycloxuron  113036-88-7  Flucycloxuron  101463-69-8  Herbicide  NA 184  NA 183  Fungicide, Microbiocide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoylurea	Propyl paraben, calcium salt	83542-69-2	61206	NA 497		Benzoic acid
Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  NA 138  Herbicide  Benzoylurea	Propyl parahan godium calt	25295 60 0	61004	371 405		
Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoylurea  Diflubenzuron  35367-38-5  #####  Plucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 200  Herbicide  Benzoylurea  Flufenoxuron  101463-69-8  #####  NA 901  Insecticide  Benzoylurea  Hexaflumuron  86479-06-3  #####  NA 184  NA 183  Insecticide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea	i ropyr paraben, sodium sait	33283-09-9	61204	NA 495		Benzoic acid
Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  Diflubenzuron  Tlucycloxuron  Flucycloxuron  Flucycloxuron  101463-69-8  Herbicide  1054-81-0  29906  NA 224  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoylurea	Salicylic acid	69-72-7	76602	1170		D
Sodium 3-amino-2,5-   1954-81-0   29906   NA 224   Herbicide   Benzoic acid		03-12-1	70002	11/0		Benzoic acid
Sodium 3-amino-2,5-dichlorobenzoate         1954-81-0         29906         NA 224         Herbicide         Benzoic acid           Tricamba         2307-49-5         17301         NA 151         Herbicide         Benzoic acid           Anisuron         2689-43-2         #####         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         #####         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         ######         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea		•				
dichlorobenzoate         John Street         Benzoic acid           Tricamba         2307-49-5         17301         NA 151         Herbicide         Benzoic acid           Anisuron         2689-43-2         #####         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         ######         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         ######         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea	Sodium 3-amino-2,5-	1954-81-0	29906	NA 224		Benzoic acid
Anisuron         2689-43-2         #####         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         #####         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         ######         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea	dichlorobenzoate					- Jamoio dola
Anisuron         2689-43-2         ######         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         ######         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         ######         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         ######         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         ######         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea				NA 151	Herbicide	Benzoic acid
Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         #####         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         #####         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea					Herbicide	
Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         ######         NA 901         Insecticide         Benzoylurea           Hexaflumuron         86479-06-3         ######         3899         Insecticide         Benzoylurea           Lufenuron         103055-07-8         NA 184         NA 183         Insecticide         Benzoylurea					Insecticide	
Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea  Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea  Hexaflumuron 86479-06-3 ##### 3899 Insecticide Benzoylurea  Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea		***	#####	NA 109	Herbicide	
Hexaflumuron 86479-06-3 ##### 3899 Insecticide Benzoylurea  Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea					Herbicide	
Hexaflumuron 86479-06-3 ##### 3899 Insecticide Benzoylurea  Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea	<u> </u>				Insecticide	Benzoylurea
News by the second bonzoyinta						Benzoylurea
Novaluron   116714-46-6   NA 226   NA 226   Herbicide   Benzovlurea						Benzoylurea
	Novaluron	116714-46-6	NA 226	NA 226	Herbicide	Benzoylurea

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Ties The	
	C21D I VUINDEI	Code	Code	Use Type	Chemical Class
Phenobenzuron	449583	#####	NA 133	Herbicide	Benzoylurea
Teflubenzuron	83121-18-0	#####	NA 33	Insecticide	Benzoylurea
Triflumuron	64628-44-0	#####	2961	Insecticide	Benzoylurea
Diethamquat chloride	NA 1567	NA 231	NA 231	Herbicide	Bipyridylium
Diquat bistribromide	27041-82-3	#####	NA 146	Herbicide	Bipyridylium
Diquat dibromide	85-00-7	32201	229	Herbicide,	Bipyridylium
				Dessicant	
Diquat ion	2764-72-9	32202	NA 294	N/A	Bipyridylium
Monolinuron with paraquat dichloride	69312-67-0	###### 	NA 119	Herbicide	Urea, Bipyridylium
Morfamquat	7411-47-4	#####	NA 135	N/A	Bipyridylium
Morfamquat	7411-47-4	NA 201	NA 200	Herbicide	Bipyridylium
Morfamquat chloride	4636-83-3	NA 212	NA 212	Herbicide	Bipyridylium
Paraquat	4685-14-7	61603	NA 500	Herbicide	Bipyridylium
Paraquat bis(methylsulfate)	2074-50-2	61602	458	Herbicide	Bipyridylium
Paraquat bistribromide	27041-84-5	#####	NA 159	Herbicide	Bipyridylium
Paraquat dichloride	1910-42-5	61601	1601	Herbicide	Bipyridylium
Priglone (diquat dibromide w/paraquat ion)	78403-23-3	32203	NA 295	N/A	Bipyridylium
1,3-Dimethyl-1,1,3,3- disiloxanetetrol-1,3- bis(dimethylthiocarbamate)	22232-20-8	34601	NA 303	N/A	Bis-Carbamate
Desmedipham	13684-56-5	#####	1748	Herbicide	Bis-Carbamate
Dimethyl (4-methyl-1,3-	51543-98-7	#####	NA 888	Fungicide	Bis-Carbamate
phenylenebis(iminocarbonyl- 1H-benzimidazole-1,2- diyl))biscarbamate					
Phenisopham	57375-63-0	NA 209	NA 208	Herbicide	Bis-Carbamate
Phenmedipham	13684-63-4	98701	675	Herbicide	Bis-Carbamate
Phenmedipham-ethyl	13684-44-1	#####	NA 149	Herbicide	Bis-Carbamate
2-Hydroxy alachlor	NA 943	NA 183	2602	Breakdown product	Chloroacetanilide
Aatram (propachlor with atrazine) (019101+080803)	8070-76-6	80816	NA 781	Herbicide	Triazine,
Acetochlor	34256-82-1	#####	2349	Herbicide	Chloroacetanilide
Alachlor	15972-60-8	90501	678	Herbicide	Chloroacetanilide
Butachlor	23184-66-9	#####	4056	Herbicide	Chloroacetanilide Chloroacetanilide
Butenachlor	87310-56-3	NA 206	NA 206	Herbicide	Chloroacetanilide
Delachlor	24353-58-0	#####	NA 132	Herbicide	Chloroacetanilide
Diethatyl-ethyl	38727-55-8	#####	1995	Herbicide	Chloroacetanilide
Dimethachlor	50563-36-5	NA 184	NA 183	Herbicide	Chloroacetanilide
Metazachlor	67129-08-2	NA 184	NA 183	Herbicide	Chloroacetanilide
Metolachlor	51218-45-2	#####	1996	Herbicide	Chloroacetanilide
Metolachlor, (S)	87392-12-9	#####	5133	Herbicide	Chloroacetanilide
Pretilachlor	51218-49-6	NA 184	NA 184	Herbicide	Chloroacetanilide
Propachlor	1918-16-7	19101	511	Herbicide	Chloroacetanilide
Propisochlor	86763-47-5	NA 233	NA 233	Herbicide	Chloroacetanilide
Prynachlor	21267-72-1	#####	NA 138	Herbicide, Plant Growth	Chloroacetanilide
Thenylchlor	96491-05-3	NA 229	NA 220	Regulator	GI
(2-Methyl-4,6-	13333-87-4	######	NA 229 NA 161	Herbicide	Chloroacetanilide
dichlorophenoxy)acetic acid	20005-07-4	<del>1111111111</del>	14W 101	Impurity	Chlorophenoxy acid or ester
(as impurity)		•			

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
2.2.6 Trichlorouhouslandia	2002 64.0	Code	Code		
2,3,6-Trichlorophenylacetic acid	2903-64-2	82603	NA 819	Herbicide	Chlorophenoxy acid or ester
2,3,6-Trichlorophenylacetic acid, sodium salt	53404-91-4	82604	NA 820	Herbicide	Chlorophenoxy acid or ester
2,4,5-T	93-76-5	82001	639	Herbicide	Chlorophenoxy acid or ester
2,4,5-T tetradecylamine salt	53535-37-8	82013	1989	Herbicide	Chlorophenoxy acid
2,4,5-T, 2-ethylhexyl ester	1928-47-8	82063	1092	Herbicide	or ester Chlorophenoxy acid
2,4,5-T, alkylamine salt	53535-37-8	82013	818	Herbicide	or ester Chlorophenoxy acid
2,4,5-T, butoxyethanol ester	2545-59-7	82053	819	Herbicide	or ester Chlorophenoxy acid
2,4,5-T, butoxyethanol ester	2545-59-7	82072	NA 166	Herbicide	or ester, Glycol Ether Chlorophenoxy acid
2,4,5-T, butoxypropyl ester	1928-48-9	82055	820	Herbicide	or ester Chlorophenoxy acid
2,4,5-T, butyl ester	93-79-8	82056	822	Herbicide	or ester Chlorophenoxy acid or ester
2,4,5-T, butyric acid	93-80-1	######	NA 152	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, dimethylamine salt	6369-97-7	82019	1474	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, dodecylamine salt	53404-84-5	82011	1988	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, isooctyl ester	25168-15-4	NA 121	851	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, N-oleyl-1,3- propylenediamine salt	53404-87-8	82029	1097	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, propylene glycol butyl ether ester	1928-48-9	82055	824	Herbicide	Chlorophenoxy acid or ester
2,4,5-T, triethylamine salt	2008-46-0	82034	850	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, 2-ethyl-4-methylpentyl ester	69462-12-0	82064	NA 799	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, alkyl(C13) amine salt	53404-85-6	82012	NA 790	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, amyl ester	120-39-8	82051	NA 795	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, butoxyethoxypropanol ester	1928-58-1	82052	NA 796	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, diethylethanolamine salt	53404-86-7	82038	NA 793	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, isobutyl ester	4938-72-1	82062	NA 798	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, isopropyl ester	93-78-7	82066	NA 800	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, N,N-dimethyl oleyl-linoleyl amine salt	55256-33-2	82039	NA 794	Herbicide	Chlorophenoxy acid or ester
2,4,5-trichlorophenoxyacetic acid, N,N- dimethyllinoleylamine salt	53404-88-9	82037	NA 792	Herbicide	Chlorophenoxy acid or ester
amouty innoisy annie salt					

Chemical Name	CAGNI	TT 0 777 1 70	T = 1 = 1	<b>-</b>	
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		<u>Use Type</u>	Chemical Class
2,4,5-trichlorophenoxyacetic	53404-89-0	Code	Code		
acid, N,N-dimethyloleylamine	33404-89-0	82020	NA 791	Herbicide	Chlorophenoxy acid
salt				,	or ester
2,4,5-trichlorophenoxyacetic	55491-33-3	90077	371.000		
acid, pentyl ester	33491-33-3	82077	NA 803	Herbicide	Chlorophenoxy acid
2,4,5-trichlorophenoxyacetic	13560-99-1	92004	374 500		or ester
acid, sodium salt	13300-99-1	82004	NA 789	Herbicide	Chlorophenoxy acid
2,4,5-trichlorophenoxyacetic	52525 20 2	2225			or ester
acid, tripropylene glycol	53535-32-3	82075	NA 802	Herbicide	Chlorophenoxy acid
isobutyl ether ester			. I	•	or ester
2,4-D	94-75-7	20001			
2,4-15	94-75-7	30001	636	Herbicide,	Chlorophenoxy acid
			[	Plant Growth	or ester
2,4-D with 2,4,5-T	9015 25 0	200==	<del></del>	Regulator	
2,4-D wim 2,4,5-1	8015-35-8	30077	NA 259	Herbicide	Chlorophenoxy acid
2,4-D, 2-ethyl-4-methylpentyl	52404 27 0	371.00			or ester
	53404-37-8	NA 227	NA 227	Herbicide	Chlorophenoxy acid
ester 2,4-D, 2-ethylhexyl ester	1000 10 1				or ester
2,4-D, 2-emymexyl ester	1928-43-4	30063	1622	Herbicide	Chlorophenoxy acid
2,4-D, alkanolamine salts	2225 77.2				or ester
(others) and is a series	2307-55-3	30005	801	Herbicide	Chlorophenoxy acid
(ethanol and isopropanol					or ester
amines)				•	
2,4-D, alkyl (C12) amine salts	2212-54-6	30011	980	Herbicide	Chlorophenoxy acid
2472 11 1 (214)					or ester
2,4-D, alkyl (C14) amine salts	28685-18-9	30013	981	Herbicide	Chlorophenoxy acid
0.47					or ester
2,4-D, butoxy ethoxy propanol	1928-57-0	30052	1255	Herbicide	Chlorophenoxy acid
ester					or ester
2,4-D, butoxyethanol ester	1929-73-3	30053	802	Herbicide	Chlorophenoxy acid
24 D 1					or ester, Glycol Ether
2,4-D, butoxyethanol ester	1929-73-3	30061	NA 166	Herbicide	Chlorophenoxy acid
24721					or ester
2,4-D, butoxypropyl ester	1928-45-6	30055	803	Herbicide	Chlorophenoxy acid
248111					or ester
2,4-D, butyl ester	94-80-4	30056	804	Herbicide	Chlorophenoxy acid
240 11					or ester
2,4-D, chlorocrotyl ester	2971-38-2	NA 228	NA 227	Herbicide	Chlorophenoxy acid
2472 1: 11					or ester
2,4-D, diethanolamine salt	5742-19-8	30016	805	Herbicide	Chlorophenoxy acid
0470 1: 11					or ester
2,4-D, diethylamine salt	20940-37-8	30017	875	Herbicide	Chlorophenoxy acid
2472 11 11 11					or ester
2,4-D, dimethylamine salt	2008-39-1	30019 .	806	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, dodecylamine salt	2212-54-6	30011	807	Herbicide	Chlorophenoxy acid
				]	or ester
2,4-D, heptylamine salt	37102-63-9	30023	1962	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, isooctyl ester	25168-26-7	30064	809	Herbicide	Chlorophenoxy acid
					or ester
Triclopyr	55335-06-3	#####	NA 36	Herbicide	Chloropyridinyl
Triclopyr ethyl ester	60825-27-6	#####	NA 108	Herbicide	Chloropyridinyl
Triclopyr, butoxyethyl ester	64700-56-7	#####	2170	Herbicide	Chloropyridinyl,
					Glycol Ether
Triclopyr, triethylamine salt	57213-69-1	#####	2131	Herbicide	Chloropyridinyl
Alloxydim	55634-91-8	NA 203	NA 203	Herbicide	Cyclohexenone
					CACIOHEVEHOHE

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Code	Code	OSC Type	Chemical Class
					derivative
Alloxydim sodium	55635-13-7	#####	NA 926	Herbicide	Cyclohexenone derivative
Butroxydim	138164-12-2	NA 202	NA 202	Herbicide	Cyclohexenone derivative
Clethodim	99129-21-2	#####	3566	Herbicide	Cyclohexenone derivative
Cloproxydim	95480-33-4	NA 231	NA 231	Herbicide	Cyclohexenone derivative
Cycloxydim	101205-02-1	NA 184	NA 183	Herbicide	Cyclohexenone derivative
Sethoxydim	74051-80-2	#####	2177	Herbicide	Cyclohexenone derivative
Tepraloxydim	149979-41-9	#####	NA 982	Herbicide	Cyclohexenone derivative
Tralkoxydim	87820-88-0	#####	5457	Herbicide	Cyclohexenone derivative
2,4-dinitrophenol	51-28-5	37509	221	Impurity	Dinitrophenol derivative
2,4-dinitrophenol, sodium salt (as impurity)	1011-73-0	#####	NA 161	Impurity, Breakdown product	Dinitrophenol derivative
2,4-Dinitrophenyl thiocyanate	1594-56-5	<del>#####</del>	NA 146	N/A	Dinitrophenol derivative
2,6-dinitrophenol, sodium salt (as impurity)	32581-06-9	#####	NA 161	Impurity	Dinitrophenol derivative
2-Cyclohexyl-4,6-dinitrophenol dicyclohexylamine	317-83-9	37502	NA 316	N/A	Dinitrophenol derivative
3,3'-Dichloro-5,5'-dinitro-(1,1'-biphenyl)-2,2'-diol	15595-24-1	#####	NA 137	N/A	Dinitrophenol derivative
3,3'-Dichloro-5,5'-dinitro-(1,1'-biphenyl)-2,2'-diol	63992-31-4	######	NA 137	N/A	Dinitrophenol derivative
4,6-Dinitro-2- cyclohexylphenol, 2-((2- aminoethyl)amino)ethanol salt	69632-97-9	######	NA 145	N/A	Dinitrophenol derivative
4,6-Dinitro-2- cyclohexylphenol, triethanolamine salt	69632-98-0	#####	NA 145	N/A	Dinitrophenol derivative
5,5'-Dichloro-3,3'-dinitro-(1,1'- biphenyl)-2,2'-diol	10331-57-4	#####	NA 137	N/A	Dinitrophenol derivative
6,6'-Dichloro-4,4'-dinitro-(1,1'- biphenyl)-2,2'-diol	21832-25-7	######	NA 137	N/A	Dinitrophenol derivative
Binapacryl	485-31-4	12201	73	Herbicide	Dinitrophenol derivative
Diethanolamine dinoseb (2- sec-butyl-4,6-dinitrophenol)	53404-43-6	37514	NA 320	Herbicide	Dinitrophenol derivative
Dinex	131-89-5	37501	NA 315	N/A	Dinitrophenol
Dinitro cresol	534-52-1	37507	3170	Fungicide	derivative Dinitrophenol
Dinitro-1-methyl heptyl phenol	NA 159	NA 302	758	N/A	derivative Dinitrophenol
Dinitrophenol (mixed isomers)	25550-58-7	NA 223	NA 223	Breakdown product, Impurity	derivative Dinitrophenol derivative
Dinobuton	973-21-7	#####	2526	Insecticide,	Dinitrophenol

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u> </u>	Code	Code	Cac 1 ype	Chemical Class
			<del> </del>	Fungicide	derivative
Dinocap	39300-45-3	36001	344	Fungicide,	Dinitrophenol
			1	Insecticide	derivative
Dinocap, other related	NA 1091	NA 162	90344	Insecticide,	Dinitrophenol
				Fungicide	derivative
Dinocton	32534-96-6	NA 207	NA 206	Insecticide,	Dinitrophenol
				Fungicide	derivative
Dinofenate	61614-62-8	######	NA 146	Herbicide	Dinitrophenol
					derivative
Dinopenton	5386-57-2	#####	NA 154	N/A	Dinitrophenol
		<del> </del>			derivative
Dinoprop	7257-41-2	######	NA 138	N/A	Dinitrophenol
D:	4007.06.0	05504	125-215-		derivative
Dinosam	4097-36-3	37504	NA 318	N/A	Dinitrophenol
Dinoseb	88-85-7	27505	220	77 1	derivative
Dinoseb	00-03-7	37505	238	Herbicide,	Dinitrophenol
Dinoseb acetate	2813-95-8	NA 207	NA 206	Defoliant Herbicide	derivative
Dinosco acciate	2013-93-0	NA 207	NA 206	Herbicide	Dinitrophenol
Dinoseb, amine salt	2244387	37511	239	Herbicide,	derivative
Dinosco, arimic sait	2277307	3/311	239	Defoliant	Dinitrophenol derivative
Dinoseb, ammonium salt	6365-83-9	37513	240	Herbicide,	Dinitrophenol
	0303 03 7	3,313	240	Defoliant	derivative
Dinoseb, sodium salt	35040-03-0	37512	1445	Herbicide,	Dinitrophenol
			1	Defoliant	derivative
Dinoseb, triethanolamine salt	6420-47-9	37506	235	Herbicide,	Dinitrophenol
				Defoliant	derivative
Dinosulfon	5386-77-6	#####	NA 157	N/A	Dinitrophenol
					derivative
Dinoterb	1420-07-1	#####	NA 128	Herbicide	Dinitrophenol
					derivative
Dinoterbon	6073-72-9	#####	NA 128	Herbicide	Dinitrophenol
DVGC 1: 1:	2012 56 5				derivative
DNOC, sodium salt	2312-76-7	37508	533	Fungicide,	Dinitrophenol
				Microbiocide,	derivative
•		1		Insecticide,	
Etinofen	2544-94-7	#####	NA 147	Herbicide	
Ethiolen	2344-34-7	######	NA 147	N/A	Dinitrophenol
Medinoterb acetate	212943	NA 208	NA 208	Herbicide	derivative Dinitrophenol
1.156Moioro acciano	212743	NA 200	NA 208	Heroicide	derivative
Methyl 2-(1-methylheptyl)-4,6-	5386-68-5	#####	NA 157	N/A	Dinitrophenol
dinitrophenyl carbonate		"""""	1121 137	14/12	derivative
Premerge plus (naptalam with	8075-57-8	30704	NA 278	Herbicide	Dinitrophenol
dinoseb)		1			derivative
Sodium naptalam with sodium	59915-53-6	30705	NA 279	Herbicide	Dinitrophenol
dinoseb					derivative
Sultropen	963-22-4	#####	NA 146	N/A	Dinitrophenol
					derivative
Acifluorfen	50594-66-6	#####	NA 935	Herbicide	Diphenyl ether
Acifluorfen, sodium salt	62476-59-9	#####	2218	Herbicide	Diphenyl ether
Aclonifen	74070-46-5	NA 187	NA 187	Herbicide	Diphenyl ether
Bifenox	42576-02-3	#####	1953	Herbicide	Diphenyl ether
Chlomethoxyfen	32861-85-1	NA 185	NA 185	Herbicide	Diphenyl ether
Diofenolan	63837-33-2	7703	NA 101	Herbicide	Diphenyl ether
Ethyl acifluorfen	77207-01-3	#####	NA 936	Herbicide	Diphenyl ether
		************	•		

Chemical Name   CAS Number   Chemical Property   Chemical Class	Chemical Name	CAS Number	III EDA DO	0.4 67		
Fluoroglycofen	<u>Encinicar Tvaric</u>	CAS Number			Use Type	Chemical Class
Fomesafen   72178-02-0	Fluoroglycofen	77501 60 1			TT 1 ' ' 1	
Fomesafen sodium						
Lactofen						
Methyl acifluorfen   50594-67-7						
December   Content   Con						
Bromobonil   25671-46-9		<del></del>				
Bromoxynil butyrate						
Bromoxynil peptanoate		<del></del>				
Bromoxynil petanoate						
Bromoxynil pentanoate   NA 1476   NA 220   NA 219   Herbicide   Hydroxybenzonitrile   Bromoxynil phenol   1689-84-5   35301   2429   Herbicide   Hydroxybenzonitrile   Chloroxynil   1891-95-8   #####   NA 138   Herbicide   Hydroxybenzonitrile   Loxynil octanoate   3861-47-0   #####   NA 141   Herbicide   Hydroxybenzonitrile   Loxynil sodium   2961-61-7   #####   NA 141   Herbicide   Hydroxybenzonitrile   Hydroxybe						
Bromoxynil phenol   1689-84-5   35301   2429   Herbicide   Hydroxybenzonitrile   Chloroxynil   1891-95-8   #####   NA 138   Herbicide   Hydroxybenzonitrile   Ioxynil   1689-83-4   #####   2616   Herbicide   Hydroxybenzonitrile   Ioxynil lotanoate   3861-47-0   #####   NA 141   Herbicide   Hydroxybenzonitrile   Ioxynil sodium   2961-62-8   #####   NA 141   Herbicide   Hydroxybenzonitrile   Ioxynil sodium   2961-62-8   #####   NA 141   Herbicide   Hydroxybenzonitrile   Hydroxyben						
Chloroxynil   1891-95-8						
Ioxynil thitum						
Ioxynil lithium						Hydroxybenzonitrile
Ioxynil octanoate   3861-47-0   #####   NA 141   Herbicide   Hydroxybenzonitrile   Ioxynil sodium   2961-62-8   #####   NA 141   Herbicide   Hydroxybenzonitrile   Hydroxybenz						Hydroxybenzonitrile
Ioxynil sodium						Hydroxybenzonitrile
3-5-(1,1-Dimethylethyl)-3-   isoxazolyl-4-hydroxy-1-   methyl-2-midazolidinone   78327-32-9   ##### NA 108   Algaecide   Imidazolinone     3-Pyridinecarboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-   hethylethyl)-5-cox-0-H-   imidazol-2-yl)-5-methyl-, (.+-   hethylethyl)-5-cox-0-H-   imidazol-2-yl)-5-methyl-, (.+-   hethylethyl)-5-cox-0-H-   imidazol-2-yl)-5-methyl-, (.+-   hethylethyl)-5-cox-0-H-   imidazol-2-yl)-5-methyl-, (.+-   hethylethyl)-5-cox-0-H-   imidazol-2-yl)-5-methyl-, (.+-   hethylethyl)-5-cox-0-H-   imidazol-1						Hydroxybenzonitrile
Soxazolyl-4-hydroxy-1-  methyl-2-imidazolidione					Herbicide	
methyl-2-imidazolidinone   3-Pyridinecarboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl-, (.+).   Imazamethabenz		78327-32-9	#####	NA 108	Algaecide	Imidazolinone
3-Pyridinecarboxylic acid, 2-		,				
(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl-, (,+-)-   Imazamethabenz   81405-85-8   #####   2240   Herbicide   Imidazolinone   Imidazolinone   Imazamox   114311-32-9   #####   NA 2   Herbicide   Imidazolinone   Imidazolinone   Imazapyr   104098-48-8   NA 212   NA 211   Herbicide   Imidazolinone   Imidazolinone   Imazapyr   81334-34-1   #####   2256   Herbicide   Imidazolinone   I		01224 60 2	20 10 20 20			
methylethyl)-5-oxo-1H-   imidazol-2-yl)-5-methyl-, (.+-   .)-   Imazamethabenz   81405-85-8   #####   2240   Herbicide   Imidazolinone     Imazamox   114311-32-9   #####   NA 2   Herbicide   Imidazolinone     Imazapic   104098-48-8   NA 212   NA 211   Herbicide   Imidazolinone     Imazapyr   81334-34-1   #####   2256   Herbicide   Imidazolinone     Imazapyr, isopropylamine salt   81510-83-0   #####   2257   Herbicide   Imidazolinone     Imazaquin   81335-37-7   #####   2613   Herbicide   Imidazolinone     Imazaquin, sodium salt   81335-47-9   #####   3006   Herbicide   Imidazolinone     Imazaquin, sodium salt   81335-46-8   #####   5109   Herbicide   Imidazolinone     Imazethapyr   81335-77-5   #####   2340   Herbicide   Imidazolinone     Imazethapyr, ammonium salt   101917-66-2   #####   2341   Herbicide   Imidazolinone     Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H- imidazol-2-yl)-5-methyl   monoammonium salt     Chloreturon   20782-58-5   NA 231   NA 230   Herbicide   Phenylurea     Daimuron   42609-52-9   NA 204   NA 204   Herbicide   Phenylurea     Methyldymron   42609-73-4   NA 205   NA 204   Herbicide   Phenylurea     Methyldymron   42609-73-4   NA 205   NA 204   Herbicide   Phenylurea     Tetrafluoron   27954-37-6   #####   NA 145   Herbicide   Phenylurea     Bilanafos   71048-99-2   NA 202   NA 201   Herbicide   Phosphinico amino acid     Ampropylofos   16606-64-7   NA 181   NA 180   Fungicide   Phosphonoglycine     Glyphosate   1071-83-6   #####   2997   Herbicide   Phosphonoglycine		81334-60-3	######	NA 1	Herbicide	Imidazolinone
Imazamethabenz						
Imazamethabenz						
Imazamox	)-					
Imazamox	Imazamethabenz	81405-85-8	111111111	2240	TT4::-1:	<del></del>
Imazapic   104098-48-8   NA 212   NA 211   Herbicide   Imidazolinone   Imazapyr   81334-34-1   #####   2256   Herbicide   Imidazolinone   Imazapyr, isopropylamine salt   81510-83-0   #####   2257   Herbicide   Imidazolinone   Imazaquin   81335-37-7   #####   2613   Herbicide, Plant Growth   Regulator   Imazaquin, sodium salt   81335-47-9   #####   3006   Herbicide   Imidazolinone   Imazaquin, sodium salt   81335-46-8   #####   5109   Herbicide   Imidazolinone   Imazethapyr   81335-77-5   #####   2340   Herbicide   Imidazolinone   Imazethapyr, ammonium salt   101917-66-2   #####   2341   Herbicide   Imidazolinone   Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt   104098-49-9   #####   5097   Herbicide   Imidazolinone   Imidazolin						
Imazapyr						
Imazapyr, isopropylamine salt   81510-83-0   #####   2257   Herbicide   Imidazolinone   Imazaquin   81335-37-7   #####   2613   Herbicide, Plant Growth   Regulator   Imidazolinone   Imazaquin, ammonium salt   81335-47-9   #####   3006   Herbicide   Imidazolinone   Imazaquin, sodium salt   81335-46-8   #####   5109   Herbicide   Imidazolinone   Imazethapyr   81335-77-5   #####   2340   Herbicide, Plant Growth   Regulator   Imidazolinone   Imazethapyr, ammonium salt   101917-66-2   #####   2341   Herbicide   Imidazolinone   Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt   20782-58-5   NA 231   NA 230   Herbicide   Phenylurea   Phenylurea   Fluothiuron   33439-45-1   NA 232   NA 232   Herbicide   Phenylurea   Methyldymron   42609-73-4   NA 205   NA 204   Herbicide   Phenylurea   Phenylurea   Tetrafluoron   27954-37-6   #####   NA 145   Herbicide   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phenylurea   Phosphonic acid   Phenylurea   Phosphonic acid   Phosphonic   Phosphonic acid						
Imazaquin   81335-37-7						
Imazaquin, ammonium salt 81335-47-9 ##### 3006 Herbicide Imidazolinone Imazaquin, sodium salt 81335-46-8 ##### 5109 Herbicide Imidazolinone Imazethapyr 81335-77-5 ##### 2340 Herbicide Imidazolinone Imazethapyr, ammonium salt 101917-66-2 ##### 2341 Herbicide Imidazolinone Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt Chloreturon 20782-58-5 NA 231 NA 230 Herbicide Phenylurea Plauthiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea Phosphinico amino acid Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine						
Imazaquin, ammonium salt   81335-47-9   #####   3006   Herbicide   Imidazolinone   Imazaquin, sodium salt   81335-46-8   #####   5109   Herbicide   Imidazolinone   Imazethapyr   81335-77-5   #####   2340   Herbicide, Plant Growth Regulator   Imidazolinone   Imazethapyr, ammonium salt   101917-66-2   #####   2341   Herbicide   Imidazolinone   Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt   Chloreturon   20782-58-5   NA 231   NA 230   Herbicide   Phenylurea   Fluothiuron   33439-45-1   NA 232   NA 232   Herbicide   Phenylurea   Methyldymron   42609-73-4   NA 205   NA 204   Herbicide   Phenylurea   Tetrafluoron   27954-37-6   ####   NA 145   Herbicide   Phenylurea   Phenylurea   Bilanafos   71048-99-2   NA 202   NA 201   Herbicide   Phosphinico amino acid   Ampropylofos   16606-64-7   NA 181   NA 180   Fungicide   Phosphonic acid   Clumberste remained   1071-83-6   #####   2997   Herbicide   Phosphonoglycine   Pho		01000 07-7	www.	2015		Imidazolinone
Imazaquin, ammonium salt   81335-47-9   #####   3006   Herbicide   Imidazolinone   Imazaquin, sodium salt   81335-46-8   #####   5109   Herbicide   Imidazolinone   Imidazolinone   Imazethapyr   81335-77-5   #####   2340   Herbicide, Plant Growth Regulator   Imidazolinone   Imidazolinone   Imidazolinone   Pintidine carboxylic acid, 2-   104098-49-9   #####   5097   Herbicide   Imidazolinone   I						
Imazaquin, sodium salt81335-46-8#####5109HerbicideImidazolinoneImazethapyr81335-77-5#####2340Herbicide, Plant Growth RegulatorImazethapyr, ammonium salt101917-66-2#####2341HerbicideImidazolinonePyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt104098-49-9#####5097HerbicideImidazolinoneChloreturon20782-58-5NA 231NA 230HerbicidePhenylureaPluothiuron33439-45-1NA 204HerbicidePhenylureaMethyldymron42609-73-4NA 205NA 204HerbicidePhenylureaTetrafluoron27954-37-6#####NA 145HerbicidePhenylureaBilanafos71048-99-2NA 202NA 201HerbicidePhosphinico amino acidAmpropylofos16606-64-7NA 181NA 180FungicidePhosphonic acidGlyphosate1071-83-6#####2997HerbicidePhosphonoglycine	Imazaquin, ammonium salt	81335-47-9	#####	3006		Imidagalinana
Imazethapyr 81335-77-5 ##### 2340 Herbicide, Plant Growth Regulator  Imazethapyr, ammonium salt 101917-66-2 ##### 2341 Herbicide Imidazolinone  Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt  Chloreturon 20782-58-5 NA 231 NA 230 Herbicide Phenylurea  Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea  Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea  Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea  Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea  Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphonic acid  Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine	Imazaquin, sodium salt					
Imazethapyr, ammonium salt Pyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1- methylethyl)-5-oxo-1H- imidazol-2-yl)-5-methyl, monoammonium salt  Chloreturon Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea Phenylurea Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea Phenylurea Phenylurea Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea	Imazethapyr					
Imazethapyr, ammonium salt101917-66-2#####2341HerbicideImidazolinonePyridine carboxylic acid, 2- (4,5-dihydro-4-methyl-4-(1- methylethyl)-5-oxo-1H- imidazol-2-yl)-5-methyl, monoammonium salt104098-49-9#####5097HerbicideImidazolinoneChloreturon20782-58-5NA 231NA 230HerbicidePhenylureaDaimuron42609-52-9NA 204NA 204HerbicidePhenylureaFluothiuron33439-45-1NA 232NA 232HerbicidePhenylureaMethyldymron42609-73-4NA 205NA 204HerbicidePhenylureaTetrafluoron27954-37-6#####NA 145HerbicidePhenylureaBilanafos71048-99-2NA 202NA 201HerbicidePhosphinico amino acidAmpropylofos16606-64-7NA 181NA 180FungicidePhosphonic acidGlyphosate1071-83-6#####2997HerbicidePhosphonoglycine				23.10		mudazonnone
Imazethapyr, ammonium salt   101917-66-2   #####   2341   Herbicide   Imidazolinone				1		
Pyridine carboxylic acid, 2-	Imazethapyr, ammonium salt	101917-66-2	#####	2341		Imidazolinone
(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-methyl, monoammonium salt  Chloreturon 20782-58-5 NA 231 NA 230 Herbicide Phenylurea  Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea  Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea  Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea  Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea  Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid  Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine						
imidazol-2-yl)-5-methyl, monoammonium salt  Chloreturon 20782-58-5 NA 231 NA 230 Herbicide Phenylurea  Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea  Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea  Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea  Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea  Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid  Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine					22010100	imdazoimone
monoammonium salt         Chloreturon         20782-58-5         NA 231         NA 230         Herbicide         Phenylurea           Daimuron         42609-52-9         NA 204         NA 204         Herbicide         Phenylurea           Fluothiuron         33439-45-1         NA 232         NA 232         Herbicide         Phenylurea           Methyldymron         42609-73-4         NA 205         NA 204         Herbicide         Phenylurea           Tetrafluoron         27954-37-6         #####         NA 145         Herbicide         Phenylurea           Bilanafos         71048-99-2         NA 202         NA 201         Herbicide         Phosphinico amino acid           Ampropylofos         16606-64-7         NA 181         NA 180         Fungicide         Phosphonic acid           Glyphosate         1071-83-6         #####         2997         Herbicide         Phosphonoglycine	methylethyl)-5-oxo-1H-			l		
Chloreturon 20782-58-5 NA 231 NA 230 Herbicide Phenylurea Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine				Î		
Daimuron 42609-52-9 NA 204 NA 204 Herbicide Phenylurea Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine						
Fluothiuron 33439-45-1 NA 204 NA 204 Herbicide Phenylurea  Fluothiuron 33439-45-1 NA 232 NA 232 Herbicide Phenylurea  Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea  Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea  Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid  Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine				NA 230	Herbicide	Phenylurea
Fluothiuron         33439-45-1         NA 232         NA 232         Herbicide         Phenylurea           Methyldymron         42609-73-4         NA 205         NA 204         Herbicide         Phenylurea           Tetrafluoron         27954-37-6         #####         NA 145         Herbicide         Phenylurea           Bilanafos         71048-99-2         NA 202         NA 201         Herbicide         Phosphinico amino acid           Ampropylofos         16606-64-7         NA 181         NA 180         Fungicide         Phosphonic acid           Glyphosate         1071-83-6         #####         2997         Herbicide         Phosphonoglycine				NA 204	Herbicide	
Methyldymron 42609-73-4 NA 205 NA 204 Herbicide Phenylurea Tetrafluoron 27954-37-6 ##### NA 145 Herbicide Phenylurea Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phosphinico amino acid Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine			NA 232	NA 232	Herbicide	
Bilanafos 71048-99-2 NA 202 NA 201 Herbicide Phenylurea  Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 #### 2997 Herbicide Phosphonoglycine				NA 204	Herbicide	
Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine				NA 145	Herbicide	
Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine	Bilanafos	71048-99-2	NA 202	NA 201		
Ampropylofos 16606-64-7 NA 181 NA 180 Fungicide Phosphonic acid  Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine	A					
Glyphosate 1071-83-6 ##### 2997 Herbicide Phosphonoglycine					Fungicide	
1 x 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					Herbicide	
	Glypnosate, ammonium salt	114370-14-8	NA 228	2319	Herbicide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u> </u>	Code	Code	Osc Type	Chemical Class
Glyphosate, diammonium salt	NA 1566	NA 229	5810	Herbicide	Phosphonoglycine
Glyphosate, isopropylamine	38641-94-0	#####	1855	Herbicide	Phosphonoglycine
salt					- acophonogrychic
Glyphosate, monoammonium	114370-14-8	#####	2301	Herbicide	Phosphonoglycine
salt					. 0-5
Glyphosate, sodium sesqui salt	70393-85-0	#####	2275	Herbicide	Phosphonoglycine
Glyphosate-trimesium	81591-81-3	######	2327	Herbicide	Phosphonoglycine
N,N-	2439-99-8	#####	NA 884	Herbicide	Phosphonoglycine
Bis(phosphonomethyl)glycine	1501.01.0				
6-chloropicolinic acid	4684-94-0	69206	NA 657	Herbicide	Pyridinecarboxylic
Clopyralid	1702-17-6	#####	5125	TT. 1 ' ' '	acid
Сюругани	1702-17-0	######	5135	Herbicide	Pyridinecarboxylic
Clopyralid copper	NA 1458	NA 216	NA 216	· Herbicide	acid
l series	1411130	1471210	117, 210	Helbicide	Pyridinecarboxylic acid
Clopyralid, monoethanolamine	57754-85-5	#####	5050	Herbicide	Pyridinecarboxylic
salt					acid
Clopyralid, triethylamine salt	NA 955	#####	2339	Herbicide	Pyridinecarboxylic
					acid
Picloram	5145	5101	593	Herbicide	Pyridinecarboxylic
Diologopa allogadamia alt	774 1450	371.000			acid
Picloram, alkanolamine salt	NA 1479	NA 220	NA 219	Herbicide	Pyridinecarboxylic
Picloram, diethanolamine salt	5145	NA 220	274 000	~~	acid
i icioram, dicinanoiamme sait	3143	NA 220	NA 220	Herbicide	Pyridinecarboxylic
Picloram, isooctyl ester	26952-20-5	5103	835	Herbicide	acid
	20732 20-3	3103	833	Heroicide	Pyridinecarboxylic acid
Picloram, potassium salt	2545-60-0	5104	5330	Herbicide	Pyridinecarboxylic
					acid
Picloram, triethylamine salt	35832-11-2	5105	NA 77	Herbicide	Pyridinecarboxylic
D: 1					acid
Picloram, triisopropanolamine	6753-47-5	5102	1099	Herbicide	Pyridinecarboxylic
salt Picolinafen	127641 05 5	NIA 210	274 010	<del></del>	acid
riconnaien	137641-05-5	NA 210	NA 210	Herbicide	Pyridinecarboxylic
Thiazopyr	117718-60-2	#####	3984	Herbicide	acid
	11//10-00-2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3704	Herbicide	Pyridinecarboxylic acid
Amidosulfuron	120923-37-7	NA 183	NA 183	Herbicide	Sulfonylurea
Azimsulfuron	120162-55-2	#####	NA 112	Herbicide	Sulfonylurea
Bensulfuron	99283-01-9	NA 181	NA 180	Herbicide	Sulfonylurea
Bensulfuron methyl	83055-99-6	#####	2263	Herbicide	Sulfonylurea
Chlorimuron	99283-00-8	NA 204	NA 203	Herbicide	Sulfonylurea
Chlorimuron ethyl	90982-32-4	######	2458	Herbicide	Sulfonylurea
Chlorsulfuron	64902-72-3	#####	2143	Herbicide	Sulfonylurea
Cinosulfuron	94593-91-6	NA 183	NA 183	Herbicide	Sulfonylurea
Cyclosulfamuron	136849-15-5	NA 204	NA 203	Herbicide	Sulfonylurea
Ethametsulfuron	111353-84-5	NA 212	NA 212	Herbicide	Sulfonylurea
Ethametsulfuron-methyl	97780-06-8	#####	NA 43	Herbicide	Sulfonylurea
Ethoxysulfuron	126801-58-9	NA 226	NA 225	Herbicide	Sulfonylurea
Flazasulfuron	104040-78-0	NA 229	NA 228	Herbicide	Sulfonylurea
Flupyrsulfuron	150315-10-9	NA 205	NA 204	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl	NA 1460	NA 216	NA 216	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl, sodium	144740-54-5	NA 218	NA 217	Herbicide	Sulfonylurea
salt Halosulfuron	100784 00 1				
114losulturon	100784-20-1	#####	3919	Herbicide	Sulfonylurea

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	I I I I	T
	OTIO IVAINUCI	Code	<u>CA Chem</u>	Use Type	Chemical Class
Imazosulfuron	122548-33-8	NA 229	NA 229	Herbicide	0.10. 1
Iodosulfuron methyl	185119-76-0	NA 212	NA 211	Herbicide	Sulfonylurea
Iodosulfuron methyl, sodium	144550-36-7	NA 212	NA 211	Herbicide	Sulfonylurea Sulfonylurea
salt				TAGEOTORIGE	Surionylurea
Mesosulfuron-methyl	208465-21-8	#####	NA 993	Herbicide	Sulfonylurea
Metsulfuron	5585-64-8	NA 183	NA 182	Herbicide	Sulfonylurea
Metsulfuron-methyl	74223-64-6	#####	2222	Herbicide	Sulfonylurea
Nicosulfuron	111991-09-4	#####	3829	Herbicide	Sulfonylurea
Oxasulfuron	144651-06-9	#####	NA 991	Herbicide	Sulfonylurea
Primisulfuron-methyl	86209-51-0	· #####	5103	Herbicide	Sulfonylurea
Prosulfuron	94125-34-5	#####	5115	Herbicide	Sulfonylurea
Pyrazosulfuron	98389-04-9	NA 205	NA 205	Herbicide	Sulfonylurea
Pyrazosulfuron-ethyl	93697-74-6	NA 218	NA 217	Herbicide	Sulfonylurea
Rimsulfuron	122931-48-0	#####	3835	Herbicide	Sulfonylurea
Sulfometuron	74223-56-6	NA 206	NA 205	Herbicide	Sulfonylurea
Sulfometuron methyl	74222-97-2	#####	2149	Herbicide	Sulfonylurea
Sulfosulfuron	141776-32-1	85601	5136	Herbicide	Sulfonylurea
Thifensulfuron	79277-67-1	NA 183	NA 182	Herbicide	Sulfonylurea
Thifensulfuron-methyl	79277-27-3	#####	2237	Herbicide	Sulfonylurea
Triasulfuron	82097-50-5	<del>}}}      </del>	5100	Herbicide	Sulfonylurea
Tribenuron	106040-48-6	NA 206	NA 205	Herbicide	Sulfonylurea
Tribenuron methyl	101200-48-0	######	2338	Herbicide	Sulfonylurea
Triflusulfuron-methyl	126535-15-7	######	3875	Herbicide	Sulfonylurea
Tritosulfuron	142469-14-5	NA 234	NA 234	Herbicide	Sulfonylurea
Butylate	2008-41-5	41405	565	Herbicide	Thiocarbamate
Calcium thylenebis	5895-18-1	14501	NA 139	Microbiocide	Dithiocarbamate
(dithiocarbamate)  Cufraneb	11006 10 5				
Cycloate	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Diammonium	1134-23-2	41301	516	Herbicide	Thiocarbamate
ethylenebis(dithiocarbamate)	607313	14502 ·	NA 140	Microbiocide	Dithiocarbamate
Dimepiperate	61432-55-1	NA 186	NTA 105	<del></del>	
EPTC	759-94-4	41401	NA 185	Herbicide	Thiocarbamate
Esprocarb	85785-20-2	NA 203	264	Herbicide	Thiocarbamate
Ethiolate	2941-55-1	#####	NA 202	Herbicide	Thiocarbamate
Fenothiocarb	62850-32-2	NA 188	1793 NA 187	Herbicide	Thiocarbamate
Ferbam	14484-64-1	34801	288	Insecticide	Thiocarbamate
Ferric nitroso dimethyl	83542-83-0	#####	NA 149	Fungicide	Dithiocarbamate
dithiocarbamate	055 12 05-0	""""	IVA 149	Microbiocide	Dithiocarbamate
Furathiocarb	65907-30-4	NA 176	NA 52	Insecticide	This soul and
Isopolinate	3134-70-1	NA 232	NA 232	Herbicide	Thiocarbamate Thiocarbamate
Mancopper	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate,
				r angroide	Inorganic-Zinc
Maneb	12427-38-2	14505	369	Fungicide	Dithiocarbamate
Maneb and nickel sulfate	8005-46-7	#####	NA 158	Fungicide	Dithiocarbamate,
hexahydrate (014505 +					Inorganic-Nickel
050505)	1505				
Manganous	15339-36-3	34802	NA 304	Fungicide	Dithiocarbamate
dimethyldithiocarbamate  Mercuric dimethyl	15415 64.3				
dithiocarbamate	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury,
					Heavy metal,
Metam sodium, dihydrate	137-42-8	39003	NA 163	F	Dithiocarbamate
, , , , , , , , , , , , , , , , , , , ,	2 0	22003	14W 102	Fumigant,	Dithiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
				Fungicide,	
İ				Microbiocide,	
		ļ		Algaecide,	
		<u> </u>		Nematicide	
Metam-sodium	6734-80-1	39003	616	Fumigant,	Dithiocarbamate
				Herbicide,	
:				Fungicide,	
				Microbiocide, Algaecide,	
		ļ		Nematicide	
Methasulfocarb	66952-49-6	NA 202	NA 201	Fungicide,	Thiocarbamate
·				Plant Growth	1 mooar baillaic
		<u> </u>		Regulator	
Methiobencarb	18357-78-3	NA 232	NA 232	Herbicide	Thiocarbamate
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
					Inorganic-Zinc
Molinate	2212-67-1	41402	449	Herbicide	Thiocarbamate
Molinate sulfoxide	NA 1052	NA 156	4080	Breakdown	Thiocarbamate
Morpholinomethyl	31848-11-0		374 450	product	
dimethyldithiocarbamate		#####	NA 158	Microbiocide	Dithiocarbamate
Nabam	142-59-6	14503	417	Fungicide,	Dithiocarbamate
				Herbicide	
Orbencarb	34622-58-7	NA 189	NA 188	Herbicide	Thiocarbamate
Pebulate	1114-71-2	41403	590	Herbicide	Thiocarbamate
Phenylmercuric dimethyldithiocarbamate	32407-99-1	66008	NA 555	Microbiocide,	Organomercury,
difficultyldidiffocarbamate				Fungicide	Dithiocarbamate,
Potassium ammonium	22221-14-3	14507	NA 141	Microbiocide	Heavy metal Dithiocarbamate
ethylenebis(dithiocarbamate)	22221 113	14507	1477 141	Microniocide	Dimocardamate
Potassium dimethyl dithio	128-03-0	34803	1934	Microbiocide	Dithiocarbamate
carbamate					Diamountainate
Potassium N-hydroxymethyl-	51026-28-9	#####	1824	N/A	Dithiocarbamate
N-methyldithio carbamate	•				
Potassium N-methyldithio	137-41-7	39002	970	Fumigant,	Dithiocarbamate
carbamate				Fungicide,	
				Microbiocide,	
				Algaecide,	
Propineb	12071-83-9	#####	NA 155	Nematicide Fungicide,	77.1.1
l repuise	12071-05-7	<i>1111111111</i>	IVA 133	Microbiocide	Dithiocarbamate,
Prosulfocarb	52888-80-9	NA 185	NA 184	Herbicide	Inorganic-Zinc Thiocarbamate
Prothiocarb	19622-08-3	NA 183	NA 182	Fungicide	Thiocarbamate
Prothiocarb hydrochloride	19622-19-6	NA 200	NA 199	Fungicide	Thiocarbamate
Pyributicarb	88678-67-5	NA 229	NA 229	Herbicide	Thiocarbamate
S-tert-Butyl	2212-63-7	#####	NA 128	Herbicide	Thiocarbamate
dipropylthiocarbamate					1 moon balliate
Sodium dimethyl dithio	128-04-1	34804	548	Fungicide	Dithiocarbamate
carbamate					
Sulfallate	95-06-7	39001	115	Herbicide	Dithiocarbamate
Tert-butyl dimethyl trithio	3304-97-0	34807	1383	Rodent	Dithiocarbamate
peroxycarbamate	<b></b>			Repellent	
Tert-	NA 1130	NA 166	91383	N/A	Dithiocarbamate
butyldimethyltrithioperoxycarbamate, other related				l	
Thiobencarb	28249-77-6	#####	1933	Harlini 1	(D1.1
	202-7-11-0		1733	Herbicide	Thiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Inc There	01 : 101
	<u>SAIS INMINOCI</u>	Code	Code	<u>Use Type</u>	Chemical Class
Thiobencarb sulfoxide	NA 1042	NA 139	2937	Breakdown	Thiocarbamate
			2,557	product	1 mocarbamate
Thiodicarb	59669-26-0	#####	2202	Molluscicide,	Thiocarbamate
				Insecticide	Timocarbaniate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and	75497-92-6	56011	NA 463	Fungicide,	Dithiocarbamate
2-methyl-1-				Plant Growth	
naphthaleneacetamide and 2-				Regulator	
methyl-1-naphthaleneacetic		<u> </u>			
acid Tiocarbazil	26756 70 2				
Triallate	36756-79-3	#####	NA 911	Herbicide	Thiocarbamate
Tricopper dichloride	2303-17-5	78802	49	Herbicide	Thiocarbamate
dimethyldithiocarbamate	7076-63-3	. <del>#####</del>	NA 152	Microbiocide	Dithiocarbamate,
Vernolate	1929-77-7	41404	1007		Inorganic-Copper
Zineb	12122-67-7	41404	1987	Herbicide	Thiocarbamate
Zinco	12122-0/-/	14506	627	Fungicide	Dithiocarbamate,
Zineb-ethylene thiuram	NA 1465	NA 217	NA 216	Fungicide	Inorganic-Zinc
disulfide adduct	1411 1405	NA 217	IVA 210	rungicide	Dithiocarbamate,
Ziram	137-30-4	34805	629	Fungicide,	Inorganic-Zinc Dithiocarbamate,
			025	Microbiocide,	Inorganic-Zinc
				Dog and Cat	morganic-Znic
				Repellent	
Ziram, cyclohexylamine	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
complex				Repellent,	Inorganic-Zinc
12500:11				Fungicide	
1,3,5-Triethylhexahydro-s- triazine	7779-27-3	82901	NA 823	Fungicide	Triazine
2-(Diethylamino)-4-	3004-70-4	20010	77. 500		·
(isopropylamino)-6-methoxy-s-	3004-70-4	80812	NA 780	N/A	Triazine
triazine				}	
2-chloro-4-	29450-57-5	#####	NA 135	N/A	T · ·
((hydroxymethyl)amino)-6-		""""	142.155	IV/A	Triazine
(isopropylamino)-s-triazine					
3-(chloromethyl)-4-ketobenz-	24310-41-6	#####	NA 162	Impurity	Triazine
1,2,3-triazine (as impurity)				and and	THAZING
3-(Hydroxymethyl)-4-	24310-40-5	#####	NA 162	Impurity	Triazine
ketobenz-1,2,3-triazine (as	ļ			1 1	
impurity)					
Aatram (propachlor with	8070-76-6	80816	NA 781	Herbicide	Triazine,
atrazine) (019101+080803)	924 12 2	90001			Chloroacetanilide
Ametryne	834-12-8	80801	18	Herbicide	Triazine
Ametryne, other related Anilazine	NA 1071	NA 160	90018	Herbicide	Triazine
	101-05-3	80811	256	Fungicide	Triazine
Atraton	1610-17-9	80802	4050	Herbicide	Triazine
Atrazine Atrazine dealkylated	1912-24-9	80803	45	Herbicide	Triazine
Au azine dealkylated	NA 1059	NA 157	4052	Breakdown	Triazine
Atrazine, other related	NA 1070	NA 160	00045	product	
Aziprotryne	NA 1072 4658-28-0	NA 160	90045	Herbicide	Triazine
Chlorazine	580-48-3	#####	NA 130	Herbicide	Triazine
Cyanatryn	21689-84-9	80806	NA 777	N/A	Triazine
Cyanazine	21725-46-2	NA 230	NA 229	Herbicide	Triazine
Cyanazine acid		##### NA 179	1640	Herbicide	Triazine
Sydnaznic acid	NA 1328	NA 178	NA 178	Breakdown	Triazine
Cyanazine amide	NA 1170	NA 176	NA 164	product	
	1111110	744710	NA 104	Breakdown	Triazine

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u> </u>	Code	Code	OSC 1 YPC	Chemical Class
				product	
Cyanazine, other related	NA 1133	NA 166	91640	Herbicide	Triazine
Cyanuric acid	108-80-5	81402	2138	Microbiocide,	Triazine
				Water	THAZIILE
				Treatment	
Cyanuric acid, monosodium	2624-17-1	NA 122	1031	Microbiocide,	Triazine
salt	•			Water	THAZIIC
				Treatment	
Cybutryne	28159-98-0	#####	4033	Microbiocide	Triazine
Cyprazine	22936-86-3	#####	1701	Herbicide	Triazine
Cyromazine	66215-27-8	#####	2286	Insecticide	Triazine
Deethyl ametryne	NA 1168	NA 176	NA 164	Breakdown	Triazine
1			,	product	111dZIIIC
Deethyl hydroxyatrazine	NA 1330	NA 179	NA 178	Breakdown	Triazine
			1	product	HIAZIIIC
Deethyl-atrazine	NA 1058	NA 157	4051	Breakdown	Triazine
				product	THAZIIC
Deethyl-simazine	NA 1047	NA 154	4096	Breakdown	Triazine
<u> </u>			1	product	x 11m2mc
Deethylhydroxysimazine	NA 1064	NA 159	5031	Breakdown	Triazine
		1		product	11100110
Deisopropyl atrazine	NA 1169	NA 176	NA 164	Breakdown	Triazine
<u> </u>	<u>.                                    </u>			product	
Deisopropyl hydroxyatrazine	NA 1331	NA 179	NA 178	Breakdown	Triazine
				product	
Deisopropyl prometryn	NA 1334	NA 179	NA 179	Breakdown	Triazine
				product	
Desamino-metribuzin	NA 1473	NA 219	NA 219	Breakdown	Triazine
				product	
Desmetryne	1014-69-3	80810	NA 779	Herbicide	Triazine
Diaminochlorotriazine	NA 856	NA 159	5028	Breakdown	Triazine
				product	
Diaminohydroxytriazine	NA 857	NA 159	5032	Breakdown	Triazine
D: 11				product	
Dichloro-s-triazinetrione	2782-57-2	81401	204	Microbiocide,	Triazine
;				Water	,
Dichloroisocyanuric acid,	2244 01 5	01100		Treatment	
potassium salt	2244-21-5	81403	2	Microbiocide,	Triazine
potassium sait				Water	
Didealkyl atrazine	NA 1329	NA 178	NIA 170	Treatment	<del></del>
Diddakyi adazme	NA 1329	INA 178	NA 178	Breakdown	Triazine
Didealkyl hydroxyatrazine	NA 1332	NA 179	NA 178	product	
Diddiny ny mony and Zinc	14A 1332	NA 179	NA 176	Breakdown	Triazine
Diketo-desamino-metribuzin	NA 1475	NA 219	NA 219	product	
	147.1475	IVA 219	NA 219	Breakdown	Triazine
Diketo-metribuzin	NA 1474	NA 219	NA 219	product Breakdown	T
	1421 1474	112219	NA 219	product	Triazine
Dimethametryn	22936-75-0	80815	2287	Herbicide	Triocina
Dipropetryn	4147-51-7	#####	2532	Herbicide	Triazine
Eglinazine	6616-80-4	NA 207	NA 207		Triazine
Eglinazine-ethyl	6616-80-4	NA 218	NA 207	Herbicide	Triazine
Ethiozin (ebuzin/tycor)	64529-56-2	######		Herbicide	Triazine
Hexahydro-1,3,5-triethyl-S-	108-74-7		NA 15	N/A	Triazine
triazine	100-/4-/	NA 125	1670	Herbicide	Triazine
Hexahydro-1,3,5-tris (2-	1028251	83301	1171	Microbiocide	Triazine

Chamia 131	T 01037 1	1	T		
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
hydroxyethyl)-s-triazine		Code	Code		
Hexahydro-1,3,5-tris(2-	25254.50.6				
hydroxypropyl)-s-triazine	25254-50-6	#####	1915	N/A	Triazine
Hexahydro-1,3,5-tris(3-	751061		374 105		
methoxypropyl)-1,3,5-triazine	/31001	<del>"""""</del>	NA 127	N/A	Triazine
Hexazinone	51235-04-2	#####	1871	TT. 1 · · · 1	
Hydroxyatrazine	2163-68-0	NA 178	NA 178	Herbicide	Triazine
	2103-00-0	NA 176	NA 178	Breakdown product	Triazine
Ipazin	1912-25-0	#####	NA 130	N/A	m-t
Isomethiozin	57052-04-7	#####	NA 875	N/A N/A	Triazine
Metamitron	41394-05-2	NA 135	2672		Triazine
Methometon	1771-07-9	######	NA 156	Herbicide	Triazine
Methoprotryne	841-06-5	#####	NA 154	N/A	Triazine
Metribuzin	21087-64-9	#####		Herbicide	Triazine
Metribuzin-DA	NA 1053		1692	Herbicide	Triazine
,	NA 1033	NA 156	4079	Breakdown	Triazine
Mono (trichloro) tetra	30622-37-8	81406	856	product	
(monopotassium dichloro)	30022 37-0	01400	830	Microbiocide, Water	Triazine
penta-s-triazine				Treatment	
MPMT	845-52-3	82701	2695	N/A	Triazine
Potassium 1,3-dichloro-2,4,6-	NA 173	NA 346	1650	N/A	
trioxo hexahydro-s-triazine	1.1.175	1121 540	1050	IN/A	Triazine
Prefox (cyprazine with	8071-40-7	#####	NA 886	Herbicide	Triazine
ethiolate)			1172 000	Herbicide	Inazine
Procyanazine	32889-48-8	#####	NA 908	Herbicide	Triazine
Proglinazine	68228-20-6	NA 209	NA 209	Herbicide	Triazine
Proglinazine-ethyl	68228-18-2	NA 218	NA 218	Herbicide	Triazine
Prometon	1610-18-0	80804	499	Herbicide	
Prometryn	7287-19-6	80805	502	Herbicide	Triazine
Propazine	139-40-2	80808	504	Herbicide	Triazine
Pymetrozine	123312-89-0	#####	5232		Triazine
Sebuthylazine	7286-69-3	#####	NA 127	Insecticide	Triazine
Secburneton	26259-45-0	#####		N/A	Triazine
Simazine	122-34-9	80807	2849 531	Herbicide	Triazine
Simetone	673-04-1	#####		Herbicide	Triazine
Simetryn	1014-70-6	#####	3532	Herbicide	Triazine
Sodium dichloro-s-			4097	N/A	Triazine
triazinetrione	2893-78-9	81404	205	Microbiocide,	Triazine
				Water	
Sodium dichloro-s-	51580-86-0	81407	1818	Treatment	m · ·
triazinetrione dihydrate	31500 00.0	01407	1010	Microbiocide, Water	Triazine
		İ		Treatment	
Sym-triazine	108-80-5	81402	893	Microbiocide,	T-::
	100 00 2	01402	093	Water	Triazine
-				Treatment	
Terbumeton	33693-04-8	NA 190	NA 189	Herbicide	Triazine
Terbuthylazine	5915-41-3	80814	3004	Algaecide,	
-			2007	Herbicide,	Triazine
			ĺ	Microbiocide	
Terbutryn	886-50-0	80813	1691	Herbicide	Triazine
Terbutryn, other related	NA 1136	NA 167	91691	Herbicide	Triazine
Triaziflam	131475-57-5	NA 234	NA 233	Herbicide	Triazine
Trichloro melamine	2107336	77101	1023	Microbiocide	
					Triazine
Trichloro-s-triazinetrione	87-90-1	81405	407	Microbiocide,	Triazine

Chemical Name	CAS Number	U.S. EPA PC	CA Charry	77 m	
	CARD INGINEER	Code	CA Chem Code	<u>Use Type</u>	Chemical Class
			Code	Treatment	
Trietazine	1912-26-1	80809	NA 778	Herbicide	T
1,3-Diphenyl urea	102-07-8	NA 186	NA 185	Plant Growth	Triazine
		1111100	1122 103	Regulator	Urea
3,4-Dichloromethylphenyl urea	NA 1335	NA 179	NA 179	Breakdown	Urea
			- '	product	Olea
3,4-Dichlorophenyl urea	154536	NA 179	NA 179	Breakdown	Urea
				product	Orca
3-(Trifluoromethyl)phenyl urea	13114-87-9	NA 179	NA 178	Breakdown	Urea
				product	3.52
Amidosulfuron	120923-37-7	NA 183	NA 183	Herbicide	Sulfonylurea
Anisuron	2689-43-2	######	NA 138	Herbicide	Benzoylurea
Azimsulfuron	120162-55-2	#####	NA 112	Herbicide	Sulfonylurea
Bensulfuron	99283-01-9	NA 181	NA 180	Herbicide	Sulfonylurea
Bensulfuron methyl	83055-99-6	<del>         </del>	2263	Herbicide	Sulfonylurea
Bentaluron	NA 1405	NA 197	NA 197	Fungicide	Urea
Benzthiazuron	1929-88-0	#####	NA 133	Herbicide	Urea
Buthiuron	30043-55-1	NA 230	NA 230	Herbicide	Urea
Buturon	3766-60-7	#####	NA 119	Herbicide	Urea
Chlorbromuron	13360-45-7	90701	1733	Herbicide	Urea
Chloreturon	20782-58-5	NA 231	NA 230	Herbicide	Phenylurea
Chlorimuron	99283-00-8	NA 204	NA 203	Herbicide	Sulfonylurea
Chlorimuron ethyl	90982-32-4	#####	2458	Herbicide	Sulfonylurea
Chlorotoluron	15545-48-9	######	NA 122	Herbicide	Urea
Chloroxuron	1982-47-4	25501	576	Herbicide	Urea
Chlorsulfuron	64902-72-3	#####	2143	Herbicide	Sulfonylurea
Cinosulfuron	94593-91-6	NA 183	NA 183	Herbicide	Sulfonylurea
Cumyluron	99485-76-4	NA 228	NA 228	Herbicide	Urea
Cyclosulfamuron	136849-15-5	NA 204	NA 203	Herbicide	Sulfonylurea
Cycluron	2163-69-1	35504	NA 306	Herbicide	Urea
Daimuron	42609-52-9	NA 204	NA 204	Herbicide	Phenylurea
Demethylfluometuron	NA 1333	NA 179	NA 178	Breakdown	Urea
			1121 170	product	Olea
Dichloral urea	116-52-9	#####	NA 115	Herbicide	Urea
Difenoxuron	14214-32-5	#####	NA 156	Herbicide	Urea
Diflubenzuron	35367-38-5	#####	1992	Insecticide	Benzoylurea
Dimefuron	34205-21-5	NA 186	NA 185	Herbicide	Urea
Diuron	330-54-1	35505	231	Herbicide	Urea
Ethametsulfuron	111353-84-5	NA 212	NA 212	Herbicide	Sulfonylurea
Ethametsulfuron-methyl	97780-06-8	#####	NA 43	Herbicide	Sulfonylurea
Ethidimuron	30043-49-3	#####	NA 994	Herbicide	Urea
Ethoxysulfuron	126801-58-9	NA 226	NA 225	Herbicide	Sulfonylurea
Fenuron	101-42-8	35507	4072	Herbicide	Urea
Fenuron trichloroacetate	4482-55-7	35508	5035	Herbicide	
Flazasulfuron	104040-78-0	NA 229	NA 228	Herbicide	Urea
Flucycloxuron	113036-88-7	#####	NA 109	Herbicide	Sulfonylurea
Flucycloxuron, (E)	94050-52-9	NA 201	NA 200		Benzoylurea
Flufenoxuron	101463-69-8	#####	NA 901	Herbicide	Benzoylurea
Fluometuron	2164-17-2	35503		Insecticide	Benzoylurea
Fluothiuron	33439-45-1	NA 232	166 NA 222	Herbicide	Urea
Flupyrsulfuron	150315-10-9		NA 232	Herbicide	Phenylurea
Flupyrsulfuron-methyl	NA 1460	NA 205	NA 204	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl, sodium	144740-54-5	NA 216	NA 216	Herbicide	Sulfonylurea
salt	177/4U-J4-J	NA 218	NA 217	Herbicide	Sulfonylurea

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	G- : 107
		Code	Code	Ose Type	Chemical Class
Forchlorfenuron	68157-60-8	#####	5557	Plant Growth	Urea
			"	Regulator	Olea
Halosulfuron	100784-20-1	#####	3919	Herbicide	Sulfonylurea
Hexaflumuron	86479-06-3	#####	3899	Insecticide	Benzoylurea
Imazosulfuron	122548-33-8	NA 229	NA 229	Herbicide	Sulfonylurea
Iodosulfuron methyl	185119-76-0	NA 212	NA 211	Herbicide	Sulfonylurea
Iodosulfuron methyl, sodium	144550-36-7	NA 212	NA 211	Herbicide	Sulfonylurea
salt		,		Hororoide	Sunonylurea
Isononuron	28805-78-9	#####	NA 151	Herbicide	Urea
Isoproturon	34123-59-6	#####	NA 155	Herbicide	Urea
Isouron	55861-78-4	#####	NA 101	Herbicide	Urea
Linuron	330-55-2	35506	361	Herbicide	Urea
Lufenuron	103055-07-8	NA 184	NA 183	Insecticide	
Mesosulfuron-methyl	208465-21-8	#####	NA 993	Herbicide	Benzoylurea
Methabenzthiazuron	18691-97-9	#####	NA 133	Herbicide	Sulfonylurea
Methiuron	21540-35-2	#####	NA 145	Herbicide	Urea
Methyldymron	42609-73-4	NA 205	NA 204	Herbicide	Urea
Metobenzuron	111578-32-6	#####	NA 37	Herbicide	Phenylurea
Metobromuron	3060-89-7	35901	NA 313		Urea
Metoxuron	19937-59-8	#####	NA 135	Herbicide	Urea
Metsulfuron	5585-64-8	NA 183		Herbicide	Urea
Metsulfuron-methyl	74223-64-6	#####	NA 182 2222	Herbicide	Sulfonylurea
Monisouron	55807-46-0	NA 233		Herbicide	Sulfonylurea
Monolinuron	1746-81-2	#####	NA 232	Herbicide	Urea
Monolinuron with paraquat	69312-67-0	###### ######	NA 119	Herbicide	Urea
dichloride			NA 119	Herbicide	Urea, Bipyridylium
Monuron	150-68-5	35501	408	Herbicide	Urea
Monuron-TCA	140-41-0	35502	409	Herbicide	Urea
Neburon	555-37-3	12001	424	Herbicide	Urea
Nicosulfuron	111991-09-4	#####	3829	Herbicide	Sulfonylurea
Norea	18530-56-8	35801	435	Herbicide	Urea
Norea (stereochemistry unspecified)	2163-79-3	NA 201	NA 200	Herbicide	Urea
Norea, other related	NA 1096	NA 163	90435	Herbicide	Urea
Novaluron	116714-46-6	NA 226	NA: 226	Herbicide	Benzoylurea
Oxasulfuron	144651-06-9	#####	NA 991	Herbicide	Sulfonylurea
Parafluron	7159-99-1	35510	NA 307	Herbicide	Urea
Pencycuron	66063-05-6	######	NA 103	Fungicide	Urea
Penfluron	35367-31-8	#####	NA 100	Herbicide	Urea
Phenobenzuron	449583	#####	NA 133	Herbicide	Benzoylurea
Primisulfuron-methyl	86209-51-0	######	5103	Herbicide	Sulfonylurea
Prosulfuron	94125-34-5	#####	5115	Herbicide	Sulfonylurea
Pyrazosulfuron	98389-04-9	NA 205	NA 205	Herbicide	Sulfonylurea
Pyrazosulfuron-ethyl	93697-74-6	NA 218	NA 217	Herbicide	Sulfonylurea
Rimsulfuron	122931-48-0	#####	3835	Herbicide	Sulfonylurea
Siduron	1982-49-6	35509	603	Herbicide	Urea
Sulfometuron	74223-56-6	NA 206	NA 205	Herbicide	Sulfonylurea
Sulfometuron methyl	74222-97-2	#####	2149	Herbicide	Sulfonylurea
Sulfosulfuron	141776-32-1	85601	5136	Herbicide	Sulfonylurea
Tebuthiuron	34014-18-1	#####	1810	Herbicide	Urea
Teflubenzuron	83121-18-0	#####	NA 33	Insecticide	
Tetrafluoron	27954-37-6	#####	NA 145	Herbicide	Benzoylurea
Thiazafluron	25366-23-8	NA 190	NA 189	Herbicide	Phenylurea
	<u> </u>		2121 103	TIGIOICIGE	Urea

Thidiazuron	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Thifensulfuron					<u> </u>	Chemical Class
Thifensulfuron	Thidiazuron	51707-55-2	#####	2162	Defoliant, Plant	Urea
Thifensulfuron						
Thifensulfuron					Regulator	
Triasulfuron					Herbicide	Sulfonylurea
Tribenuron   106040-48-6   NA 206   NA 205   Herbicide   Sulfonylurea   Tribenuron methyl   101200-48-0   #####   2338   Herbicide   Sulfonylurea   Trithusulfuron-methyl   12633-15-7   #####   2961   Insecticide   Sulfonylurea   Trithusulfuron-methyl   12633-15-7   #####   3875   Herbicide   Sulfonylurea   Trithusulfuron   142469-14-5   NA 234   NA 234   Herbicide   Sulfonylurea   Tritosulfuron   142469-14-5   NA 234   NA 234   Herbicide   Sulfonylurea   Tritosulfuron   142469-14-5   NA 234   NA 234   Herbicide   Ureaci   Sulfonylurea   S					Herbicide	Sulfonylurea
Tribenuron methyl						Sulfonylurea
Triflumuron				NA 205	Herbicide	Sulfonylurea
Trifiusulfuron-methyl   126535-15-7					Herbicide	Sulfonylurea
Trimeturon					Insecticide	Benzoylurea
Tritosulfuron					Herbicide	Sulfonylurea
Bromacil   314-40-9   12301   83   Herbicide   Uracil					Herbicide	Urea
Bromacil, dimethylamine salt   69484-13-5   12304   840   Herbicide   Uracil   Bromacil, lithium salt   53404-19-6   12302   1573   Herbicide   Uracil   Uracil   Bromacil, sodium salt   69484-12-4   12303   842   Herbicide   Uracil   Uracil   Butafenacil   134605-64-4   ####   NA 992   Herbicide   Uracil   Italian   Italia						Sulfonylurea
Bromacil, sidnum salt   53404-19-6   12302   1573   Herbicide   Uracil					Herbicide	Uracil
Bromacil, sodium salt   69484-12-4   12303   842   Herbicide   Uracil					Herbicide	Uracil
Butafenacil   134605-64-4					Herbicide	Uracil
Flupropacia						Uracil
Isocil   314-42-1   11801   NA 119   Herbicide   Uracil   Lenacil   95177   ####   NA 155   Herbicide   Uracil   Terbacil   5902-51-2   12701   532   Herbicide   Uracil   Uracil   2-Hydroxy alachlor   NA 943   NA 183   2602   Breakdown product   S757-72-2   77405   1256   Microbiocide   Anilide   Anilide   S777-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   77405   1256   Microbiocide   Anilide   S757-72-2   T7405   Triazine, Chloroacetanilide   S757-72-2   T7405   Triazine, Chloroacetanilide   S757-72-2					Herbicide	Uracil
Lenacil   95177					Herbicide	Uracil
Terbacil   5902-51-2   12701   532   Herbicide   Uracil   2-Hydroxy alachlor   NA 943   NA 183   2602   Breakdown product   3,4,5-tribromo salicylanilide, other related   3,5-dibromosalicylanilide   2577-72-2   77405   1256   Microbiocide   Anilide   Anilide   Anilide   Anilide   Anilide   NA 1024   NA 122   1071   Microbiocide   Anilide   An					Herbicide	Uracil
2-Hydroxy alachlor					Herbicide	Uracil
3,4,5-tribromo salicylanilide, other related   NA 1122   NA 165   90833   Microbiocide   Anilide					Herbicide	Uracil
3,4,5-tribromo salicylanilide, other related   3,5-dibromosalicylanilide   2577-72-2   77405   1256   Microbiocide   Anilide   5,4-dibromosalicylanilide   NA 1024   NA 122   1071   Microbiocide   Anilide   Antama (propachlor with atrazine) (019101+080803)   8070-76-6   80816   NA 781   Herbicide   Triazine, Chloroacetanilide   Acetochlor   34256-82-1   #####   2349   Herbicide   Chloroacetanilide   Chloroacetanilide   Alachlor   15972-60-8   90501   678   Herbicide   Chloroacetanilide   Benodanil   15310-01-7   #####   NA 154   Fungicide   Anilide   Butachlor   23184-66-9   #####   4056   Herbicide   Chloroacetanilide   Clloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   NA 132   Herbicide   Chloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide   Clloroacetanilide    2-Hydroxy alachlor	NA 943	NA 183	2602	Breakdown	Chloroacetanilide	
Other related   3,5-dibromosalicylamilide   2577-72-2   77405   1256   Microbiocide   Anilide   5,4-dibromosalicylamilide   NA 1024   NA 122   1071   Microbiocide   Anilide   Anilide   Antam (propachlor with atrazine) (019101+080803)   8070-76-6   80816   NA 781   Herbicide   Triazine, Chloroacetanilide   Alachlor   15972-60-8   90501   678   Herbicide   Chloroacetanilide   Benodanil   15310-01-7   ####   NA 154   Fungicide   Anilide   Anilide   Butachlor   23184-66-9   ####   4056   Herbicide   Chloroacetanilide   Butachlor   87310-56-3   NA 206   NA 206   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Anilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Anilide   Cyprofiram   69581-33-5   NA 186   NA 185   Fungicide   Anilide   Cypromid   2759-71-9   26101   178   Herbicide   Anilide   Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Anilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Anilide   Fenasulam   78357-48-9   NA 231   NA 231   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Mefluidide   53780-34-0   #####   5082   Herbicide   Anilide   Anilide   Mefluidide, diethanolamine salt   53780-36-2   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   33601-83-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   33601-83-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   33601-83-6   ######   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   33601-83-	24547 11 1 111	NT 4400	1			
3,5-dibromosalicylanilide		. NA 1122	NA 165	90833	Microbiocide	Anilide
S,4-dibromosalicylanilide		2577 72 2	77.405	1056	3.5	
Aatram (propachlor with atrazine) (019101+080803)   8070-76-6   80816   NA 781   Herbicide   Triazine, Chloroacetanilide   Acetochlor   34256-82-1   #####   2349   Herbicide   Chloroacetanilide   Alachlor   15972-60-8   90501   678   Herbicide   Chloroacetanilide   Benodanil   15310-01-7   ####   NA 154   Fungicide   Anilide   Butachlor   23184-66-9   #####   4056   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 206   NA 206   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Anilide   Cyprofuram   69581-33-5   NA 186   NA 185   Fungicide   Anilide   Cypromid   2759-71-9   26101   178   Herbicide   Anilide   Chloroacetanilide   Delachlor   24353-58-0   #####   NA 132   Herbicide   Chloroacetanilide   Diffufenican   83164-33-4   NA 184   NA 183   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Anilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Etobenzanid   79540-50-4   NA 229   NA 228   Herbicide   Anilide   Fungiane   Tassor-48-9   NA 231   NA 231   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Mefluidide   53780-34-0   #####   5082   Herbicide   Anilide   Anilide   Mefluidide   53780-34-0   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   83601-83-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   83601-83-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide, potassium salt   83601-83-6   ######   5083   Herbicide   Anilide   Anilide   Mefluidide   Mefluidide   53581-441-0   NA 189   NA 188   Fungicide   Ani						
Actochlor   34256-82-1   #####   2349   Herbicide   Chloroacetanilide   Actochlor   15972-60-8   90501   678   Herbicide   Chloroacetanilide   Benodanil   15310-01-7   #####   NA 154   Fungicide   Anilide   Butachlor   23184-66-9   #####   4056   Herbicide   Chloroacetanilide   Butenachlor   87310-56-3   NA 206   NA 206   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Anilide   Cypromid   2759-71-9   26101   178   Herbicide   Chloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   NA 132   Herbicide   Chloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Etobenzanid   79540-50-4   NA 229   NA 228   Herbicide   Anilide   Fenasulam   78357-48-9   NA 231   NA 231   Herbicide   Anilide   Flufenacet   142459-58-3   #####   5293   Herbicide   Anilide   Flufenacet   142459-58-3   #####   5293   Herbicide   Anilide   Flufenacet   73250-68-7   NA 189   NA 188   Herbicide   Anilide   Mefluidide   53780-36-2   #####   5082   Herbicide   Anilide   Anilide   Mefluidide   53780-36-2   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   53814-41-0   NA 189   NA 188   Fungicide   Anilide   Anilide   Mefluidide   55814-41-0   NA 189   NA 188   Fungicide   Anilide   Anilide   Mefluidide   55814-41-0   NA 189   NA 188   Fungicide   Anilide   Anilide   Anilide   Mefluidide   55814-41-0   NA 189   NA 188   Fungicide   Anilide   Anilide   Anilide   Anilide   Mefluidide   55814-41-0   NA 189   NA 188   Fungicide   Anilide   Anilide   Anilide   Anilide   Mefluidide   55814-41-0   NA 189   NA 188   Fungicide   Anilide						
Acetochlor   34256-82-1   #####   2349   Herbicide   Chloroacetanilide   Alachlor   15972-60-8   90501   678   Herbicide   Chloroacetanilide   Benodanil   15310-01-7   #####   NA 154   Fungicide   Anilide   Butachlor   23184-66-9   #####   4056   Herbicide   Chloroacetanilide   Butenachlor   87310-56-3   NA 206   NA 206   Herbicide   Chloroacetanilide   Clomeprop   84496-56-0   NA 204   NA 203   Herbicide   Anilide   Cyprofiuram   69581-33-5   NA 186   NA 185   Fungicide   Anilide   Cypromid   2759-71-9   26101   178   Herbicide   Chloroacetanilide   Delachlor   24353-58-0   #####   NA 132   Herbicide   Chloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Etobenzanid   79540-50-4   NA 229   NA 228   Herbicide   Anilide   Flufenacet   142459-58-3   ####   5293   Herbicide   Anilide   Flufenacet   142459-58-3   ####   5293   Herbicide   Anilide   Flufenacet   142459-58-3   ####   5293   Herbicide   Anilide   Flufenacet   73250-68-7   NA 189   NA 188   Herbicide   Anilide   Mefluidide   53780-34-0   ####   5082   Herbicide   Anilide   Anilide   Mefluidide   53780-34-0   #####   5082   Herbicide   Anilide   Anilide   Mefluidide   53780-36-2   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   5380-38-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   53780-36-2   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   5380-38-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   5380-38-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   5380-38-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   Mefluidide   5380-38-6   #####   5083   Herbicide   Anilide   Anilide   Mefluidide   Mefluidide   Ma 189   NA 188   Fungicide   Anilide   Anilide   Mefluidide   Mefluidide   Ma 189   NA 189   NA 188   Fungicide   Anilide   Anilide   Mefluidide   Mefluidide   Ma 189		8070-70-0	90910	NA /81	Herbicide	
Alachlor		34256-82-1	#####	2349	Herhicide	
Benodanil         15310-01-7         #####         NA 154         Fungicide         Anilide           Butachlor         23184-66-9         #####         4056         Herbicide         Chloroacetanilide           Butenachlor         87310-56-3         NA 206         NA 206         Herbicide         Chloroacetanilide           Clomeprop         84496-56-0         NA 204         NA 203         Herbicide         Anilide           Cyprofuram         69581-33-5         NA 186         NA 185         Fungicide         Anilide           Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24353-58-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Diffufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Anilide           Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Flufenacet         142459-58-3         ##### <td>Alachlor</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Alachlor					
Butachlor         23184-66-9         ######         4056         Herbicide         Chloroacetanilide           Butenachlor         87310-56-3         NA 206         NA 206         Herbicide         Chloroacetanilide           Clomeprop         84496-56-0         NA 204         NA 203         Herbicide         Anilide           Cyprofuram         69581-33-5         NA 186         NA 185         Fungicide         Anilide           Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24355-8-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Diffufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flutolanil         66332-96-5	Benodanil					
Butenachlor         87310-56-3         NA 206         NA 206         Herbicide         Chloroacetanilide           Clomeprop         84496-56-0         NA 204         NA 203         Herbicide         Anilide           Cyprofuram         69581-33-5         NA 186         NA 185         Fungicide         Anilide           Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24353-58-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Diflufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Bibliophical         79540-50-4         NA 229         NA 228         Herbicide         Chloroacetanilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flufenican         NA 1568 <td< td=""><td>Butachlor</td><td></td><td></td><td></td><td></td><td></td></td<>	Butachlor					
Clomeprop         84496-56-0         NA 204         NA 203         Herbicide         Anilide           Cyprofuram         69581-33-5         NA 186         NA 185         Fungicide         Anilide           Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24353-58-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Diffufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Bibenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefluidide         53780-34-0         ##### <td< td=""><td>Butenachlor</td><td></td><td></td><td></td><td></td><td></td></td<>	Butenachlor					
Cyprofuram         69581-33-5         NA 186         NA 185         Fungicide         Anilide           Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24353-58-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Difflufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefluidide         53780-34-0         #####         5082         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780	Clomeprop					
Cypromid         2759-71-9         26101         178         Herbicide         Anilide           Delachlor         24353-58-0         #####         NA 132         Herbicide         Chloroacetanilide           Diethatyl-ethyl         38727-55-8         #####         1995         Herbicide         Chloroacetanilide           Diflufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefluidide         53780-34-0         #####         5082         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780-36-2         #####         1955         Herbicide         Anilide           Mefluidide, potassium salt						
Delachlor   24353-58-0   #####   NA 132   Herbicide   Chloroacetanilide   Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide   Diflufenican   83164-33-4   NA 184   NA 183   Herbicide   Anilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide   Chloroacetanilide   Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Anilide   Anilide   Fenasulam   78357-48-9   NA 231   NA 231   Herbicide   Anilide   Flufenican   142459-58-3   #####   5293   Herbicide   Anilide   Flufenican   NA 1568   NA 234   NA 234   Herbicide   Anilide   Flutolanil   66332-96-5   #####   2305   Fungicide   Anilide   Mefenacet   73250-68-7   NA 189   NA 188   Herbicide   Anilide   Anilide   Mefluidide   53780-34-0   #####   5082   Herbicide   Anilide   Anilide   Mefluidide   Mefluidide   53780-36-2   #####   1955   Herbicide   Anilide   Anilide   Mefluidide   Dimethachloroacetanilide   Mefluidide   Mefluidide   Dimethachloroacetanilide	Cypromid					
Diethatyl-ethyl   38727-55-8   #####   1995   Herbicide   Chloroacetanilide		24353-58-0				
Diflufenican         83164-33-4         NA 184         NA 183         Herbicide         Anilide           Dimethachlor         50563-36-5         NA 184         NA 183         Herbicide         Chloroacetanilide           Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flufenican         NA 1568         NA 234         NA 234         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefenacet         73250-68-7         NA 189         NA 188         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780-36-2         #####         1955         Herbicide         Anilide           Mefluidide, potassium salt         83601-83-6         #####         5083         Herbicide         Anilide           Mepronil         55814-41-0         NA 189         NA 188         Fungicide         Anilide	Diethatyl-ethyl					
Dimethachlor   50563-36-5   NA 184   NA 183   Herbicide   Chloroacetanilide	Diflufenican	83164-33-4				
Etobenzanid         79540-50-4         NA 229         NA 228         Herbicide         Anilide           Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flufenican         NA 1568         NA 234         NA 234         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefenacet         73250-68-7         NA 189         NA 188         Herbicide         Anilide           Mefluidide         53780-34-0         #####         5082         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780-36-2         #####         1955         Herbicide         Anilide           Mefluidide, potassium salt         83601-83-6         #####         5083         Herbicide         Anilide           Mepronil         55814-41-0         NA 189         NA 188         Fungicide         Anilide	Dimethachlor					
Fenasulam         78357-48-9         NA 231         NA 231         Herbicide         Anilide           Flufenacet         142459-58-3         #####         5293         Herbicide         Anilide           Flufenican         NA 1568         NA 234         NA 234         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefenacet         73250-68-7         NA 189         NA 188         Herbicide         Anilide           Mefluidide         53780-34-0         #####         5082         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780-36-2         ######         1955         Herbicide         Anilide           Mefluidide, potassium salt         83601-83-6         ######         5083         Herbicide         Anilide           Mepronil         55814-41-0         NA 189         NA 188         Fungicide         Anilide	Etobenzanid					
Flufenacet   142459-58-3	Fenasulam					
Flufenican         NA 1568         NA 234         NA 234         Herbicide         Anilide           Flutolanil         66332-96-5         #####         2305         Fungicide         Anilide           Mefenacet         73250-68-7         NA 189         NA 188         Herbicide         Anilide           Mefluidide         53780-34-0         #####         5082         Herbicide, Plant Growth Regulator         Anilide           Mefluidide, diethanolamine salt         53780-36-2         #####         1955         Herbicide         Anilide           Mefluidide, potassium salt         83601-83-6         #####         5083         Herbicide         Anilide           Mepronil         55814-41-0         NA 189         NA 188         Fungicide         Anilide	Flufenacet					
Flutolanil   66332-96-5   #####   2305   Fungicide   Anilide	Flufenican					
Mefenacet 73250-68-7 NA 189 NA 188 Herbicide Anilide  Mefluidide 53780-34-0 ##### 5082 Herbicide, Plant Growth Regulator  Mefluidide, diethanolamine salt 53780-36-2 ##### 1955 Herbicide Anilide  Mefluidide, potassium salt 83601-83-6 ##### 5083 Herbicide Anilide  Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide	Flutolanil					
Mefluidide 53780-34-0 ##### 5082 Herbicide, Plant Growth Regulator  Mefluidide, diethanolamine salt 53780-36-2 ##### 1955 Herbicide Anilide  Mefluidide, potassium salt 83601-83-6 ##### 5083 Herbicide Anilide  Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide	Mefenacet					
Mefluidide, diethanolamine salt 53780-36-2 ##### 1955 Herbicide Anilide Mefluidide, potassium salt 83601-83-6 ##### 5083 Herbicide Anilide Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide	Mefluidide					
Mefluidide, diethanolamine salt 53780-36-2 ##### 1955 Herbicide Anilide  Mefluidide, potassium salt 83601-83-6 ##### 5083 Herbicide Anilide  Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide						2 MILLIO
Mefluidide, diethanolamine salt 53780-36-2 ##### 1955 Herbicide Anilide  Mefluidide, potassium salt 83601-83-6 ##### 5083 Herbicide Anilide  Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide						
Mefluidide, potassium salt83601-83-6#####5083HerbicideAnilideMepronil55814-41-0NA 189NA 188FungicideAnilide			#####	1955		Anilide
Mepronil 55814-41-0 NA 189 NA 188 Fungicide Anilide			#####	5083		
M-411 (0100 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0			NA 189	NA 188		
	Metazachlor	67129-08-2	NA 184	NA 183		Chloroacetanilide

Chemical Name	CAS Number	U.S. EPA PC	ICA CI	77 5	
<u>Chemical Ivaine</u>	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
Metolachlor	51218-45-2	#####	1996	TYankinid	011
Metolachlor, (S)	87392-12-9	#####	5133	Herbicide	Chloroacetanilide
Monalide	7287-36-7	###### ######	NA 134	Herbicide	Chloroacetanilide
Naproanilide	52570-16-8	NA 233		Herbicide	Anilide
Ofurace	58810-48-3	NA 189	NA 232	Herbicide	Anilide
Oxadixyl	77732-09-3	NA 189 	NA 188	Fungicide	Anilide
Perfluidone	37924-13-3		3539	Fungicide	Anilide
Perfluidone, diethanolamine	NA 991	###### >TA 671	1895	Herbicide	Anilide
salt	NA 991	NA 671	1896	Herbicide	Anilide
Prétilachlor	51218-49-6	NA 184	NA 184	TT1-1-1-1	
Propachlor	1918-16-7	19101		Herbicide	Chloroacetanilide
Propanil	709-98-8	28201	511 .	Herbicide	Chloroacetanilide
Propisochlor	86763-47-5	NA 233		Herbicide	Anilide
Prynachlor	21267-72-1	######	NA 233 NA 138	Herbicide	Chloroacetanilide
117111011101	21207-72-1	**************************************	NA 138	Herbicide, Plant Growth	Chloroacetanilide
				Regulator	
Pyracarbolid	24691-76-7	NA 210	NA 209	Fungicide	A 21: 4 -
Salicylanilide	87-17-2	77407	450	Fungicide,	Anilide
				Microbiocide	Anilide
Sodium salicylanilide	251930	#####	NA 145	Fungicide	Anilide
Thenylchlor	96491-05-3	NA 229	NA 229	Herbicide	Chloroacetanilide
Triclocarban	101-20-2	27901	844	N/A	Anilide
1,2,4-triazole	288-88-0	NA 968	3560	N/A	Azole
1H-benzo triazole	95-14-7	NA 493	2418	N/A	Azole
2,2'-Dithiobisbenzothiazole	120-78-5	9202	NA 109	Fungicide, Microbiocide, Insecticide	Mercaptobenzothiazo le
2-(2'-hydroxy-5-methyl phenyl)-benzotriazole	2440-22-4	NA 103	2607	Fungicide	Azole
2-(dithiocyanomethylthio)- benzothiazole	NA 1346	NA 192	NA 191	Fungicide	Mercaptobenzothiazo
2-	79910-32-0	#####	NA 925	Microbiocide	le
(thiocyanomethylthio)benzothi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11A J23	Micropiocide	Mercaptobenzothiazo le
azole with 2'-hydroxyethyl-2,3-	,		,	•	16
dibromopropionate	ľ				
2-EEBC	62732-91-6	#####	1983	Fungicide	Benzimidazole
2-Mercaptobenzothiazole	149-30-4	51701	556	Fungicide,	Mercaptobenzothiazo
				Microbiocide	le
2-Mercaptobenzothiazole, 1-	5468-43-9	51702	NA 423	Fungicide,	Mercaptobenzothiazo
(hydroxyethyl)pyridinium salt				Microbiocide	le
2-Mercaptobenzothiazole,	53404-53-8	51708	NA 426	Fungicide,	Mercaptobenzothiazo
ferric salt				Microbiocide	le le
2-Mercaptobenzothiazole,	53404-58-3	9201	NA 108	Fungicide,	Mercaptobenzothiazo
manganese salt				Microbiocide,	le
2 Morgantohammathia - 1	5000.05.0			Insecticide	
2-Mercaptobenzothiazole, monoethanolammonium salt	5902-85-2	51706	NA 424	Fungicide,	Mercaptobenzothiazo
2-Mercaptobenzothiazole,	7770 70 2	61707	77. 15.	Microbiocide	le
potassium salt	7778-70-3	51707	NA 425	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole,	2492-26-4	51704	3064	Microbiocide,	Mercaptobenzothiazo
sodium salt				Fungicide	le
2-Mercaptobenzothiazole,	2492-26-4	51704	613	Fungicide,	Mercaptobenzothiazo
sodium salt	155 5			Microbiocide	le
2-Mercaptobenzothiazole, zinc salt	155-04-4	51705	1449	Fungicide,	Mercaptobenzothiazo
Sait				Microbiocide	le, Inorganic-Zinc

Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
5-Chloro-2-	5331-91-9	NA 200	NA 199	N/A	Mercaptobenzothiazo
mercaptobenzothiazole		141200	1121177	14/24	le
5-Chloro-2-	5406-97-3	51703	1238	Microbiocide	Mercaptobenzothiazo
mercaptobenzothiazole, lauryl					le
pyridinium salt					"
5-Chloro-2-	5406-97-3	NA 421	1597	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, lauryl				Fungicide	le
pyridinium salt					
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc				Fungicide	le, Inorganic-Zinc
salt	60007.01.0	200000			
Azaconazole	60207-31-0	<del>         </del>	NA 105	Insecticide,	Azole
Benomyl	17804-35-2	00101	1550	Fungicide	
Bitertanol	55179-31-2	99101 #####	1552	Fungicide	Benzimidazole
Bromuconazole	116255-48-2	#####	NA 959	Fungicide	Azole
Carbendazim	10605-21-7		NA 8	Fungicide	Azole
Carbendazim hydrochloride	37574-18-8	#####	2176	Fungicide	Benzimidazole
Carbendazim phosphate		#####	NA 121	Fungicide	Benzimidazole
CGA-64251	52316-55-9 60207-93-4	99102	1974	Fungicide	Benzimidazole
Chlorfenapyr	<del></del>	#####	2452	Fungicide	Azole
Chlorflurazole	122453-73-0	<del>          </del>	3938	Insecticide	Pyrazole
Cyazofamid	3615-21-2	#####	NA 139	N/A	Benzimidazole
	120116-88-3	NA 216	NA 215	Fungicide	Azole
Cypendazole	28559-00-4	#####	NA 156	N/A	Benzimidazole
Cyproconazole	94361-06-5	#####	5105	Fungicide	Azole
Difenoconazole	119446-68-3	#####	5024	Fungicide	Azole
Diniconazole	83657-18-5	#####	2500	Fungicide	Azole
Diniconazole (stereochemistry unspecified)	83657-24-3	NA 200	NA 200	Fungicide	Azole
- Fenapanil	61019-78-1	#####	2083	Fungicide	Azole
Fenbuconazole	114369-43-6	#####	3905	Fungicide	Azole
Fluotrimazole	31251-03-3	NA 207	NA 207	Fungicide	Azole
Fluquinconazole	136426-54-5	NA 184	NA 183	Fungicide	Azole
Flusilazole	85509-19-9	<del>}}}}}</del>	2278	Fungicide	Azole
Flutriafol	76674-21-0	<del>}}       </del>	NA 107	Fungicide	Azole
Fuberidazole	3878-19-1	#####	NA 150	Fungicide	Benzimidazole
Furconazole	112839-33-5	NA 196	NA 196	Fungicide	Azole
Furconazole-cis	112839-32-4	NA 208	NA 207	Fungicide	Azole
Hexaconazole	79983-71-4	######	NA 23	Fungicide	Azole
Imazalil	35554-44-0	<del>}        </del>	2084	Fungicide	Azole
Imazalil sulfate	58594-72-2	#####	NA 921	Fungicide	Azole
Imibenconazole	86598-92-7	NA 205	NA 204	Fungicide	Azole
Isoxachlortole	141112-06-3	NA 232	NA 232	Herbicide	Cyclopropylisoxazole
Metconazole	125116-23-6	#####	NA 101	Fungicide	Azole
Metronidazole	443-48-1	#####	2208	Microbiocide	Azole
Myclobutanil	88671-89-0	######	2245	Fungicide	Azole
Naphthyl triazole stilbene	NA 742	NA 135	2698	N/A	Azole
monosulfonate				-	
Paclobutrazol	76738-62-0	#####	2259	Plant Growth Regulator	Azole
Penconazole	66246-88-6	#####	NA 109	Fungicide	Azole
Prochloraz	67747-09-5	#####	NA 29	Fungicide	Azole
Prochloraz - manganese complex (4:1)	75747-77-2	#####	NA 104	Fungicide	Azole

Prochloraz zinc complex         NA 1555         NA 226         NA 226         Fungicide         Azole           Propiconazole         60207-90-1         #####         2276         Fungicide         Azole           Pyrazoxyfen         71561-11-0         NA 189         NA 189         Herbicide         Pyrazole           R 23 979 imazalil base         NA 451         NA 809         2844         Fungicide         Azole	Chemical Name	CAS Number	U.S. EPA PC	d CA OL		
Prochloraz zine complex	<u> </u>	CAS Number			Use Type	Chemical Class
Propiconazole	Prochloraz zinc complex	NA 1555			P	
Pyrazoxyfen			<del></del>			
R. 23 979 imazalil base		<del></del>				
TCMTB		<del></del>				
Tebuconazole						
Tebutenpyrad   119168-77-3   90102   NA 845   Insecticide   Pyrazole   Tetracone   2593-15-9   84701   580   Pungicide   Azole   Tetraconezole   112281-77-3   #####   NA 979   Pungicide   Azole   Tetraconezole   148-79-8   60101   587   Pungicide   Azole   Thiabendazole   148-79-8   60101   587   Pungicide   Azole   Thiabendazole, hypophosphite   28558-32-9   60102   1952   Fungicide   Benzimidazole   Benzimidazole   Thiophanate   23564-06-9   #####   1684   Pungicide   Benzimidazole   Benzimidazole   Thiophanate   23564-05-8   #####   1696   Pungicide   Benzimidazole   Benzimidazole   Triadimenol   23564-05-8   #####   1696   Pungicide   Benzimidazole   Propertion   Product   Propertion   Product   Product   Propertion   Product   Pr		21304-17-0	33003	9/1		
Tebufenpyrad	Tebuconazole	107534-96-3	#1111111	2950		
Tetrazole	Tebufenpyrad					
Tetraconazole						
Thiabendazole						<del></del>
Thiabendazole, hypophosphite salt			<del></del>			
Salt						
Thiophanate-methyl   23564-05-8		20330-32-9	00102	1932	Fungicide	Benzimidazole
Thiophanate-methyl   23564-05-8	Thiophanate	23564-06-9	#####	1694	Enmail: 1.	
Tolyl triazole   29395-43-1   NA 962   2950   N/A   Azole   Precursor   Product   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Azole   Precursor   Precursor   Azole   Precursor   Precursor   Azole   Precursor   Precursor   Precursor   Azole   Precursor   Precur						
Triadimefon			""""	1090	rungicide	
Triadimefon		29395-43-1	NA 962	2950	NI/A	
Triadimenol   55219-65-3   #####   2307   Fungicide   Azole   Breakdown product   Triazbutil   16227-10-4   #####   NA 931   Fungicide   Azole   Tricyclazole   41814-78-2   #####   5002   Fungicide   Azole   Triflumizole   68694-11-1   #####   2260   Fungicide   Azole   Triflumizole   99387-89-0   NA 201   NA 201   Fungicide   Azole   Triflumizole   131983-72-7   #####   NA 101   Fungicide   Azole   Triticonazole   131983-72-7   #####   NA 101   Fungicide   Azole   Azole   Triticonazole   83657-22-1   #####   NA 101   Fungicide   Azole   Regulator   Azole   Regulator   Triflumizole   Regulator   R	Triadimefon					
Triazbutil   16227-10-4   #####   NA 931   Fungicide   Azole	Triadimenol					
Triazbutil   16227-10-4			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2307		Azole
Tricyclazole						
Tricyclazole		16227-10-4	#####	NA 931		Azolo
Triflumizole		41814-78-2	#####			
Triflumizole		68694-11-1				
Triticonazole		99387-89-0				
Carbonazole	Triticonazole	131983-72-7				
Regulator   Regulator   Regulator   Benomyl   17804-35-2   99101   1552   Fungicide   Benzimidazole   Regulator	Uniconazole	83657-22-1	#####			
Page						AZUIC
Transport   17804-35-2   99101   1552   Fungicide   Benzimidazole			#####	1983		Benzimidazole
Carbendazim   10605-21-7			99101	1552		
Carbendazim hydrochloride         37574-18-8         #####         NA 121         Fungicide         Benzimidazole           Carbendazim phosphate         52316-55-9         99102         1974         Fungicide         Benzimidazole           Chlorflurazole         3615-21-2         #####         NA 139         N/A         Benzimidazole           Cypendazole         28559-00-4         #####         NA 156         N/A         Benzimidazole           Fuberidazole         3878-19-1         #####         NA 150         Fungicide         Benzimidazole           Thiabendazole         148-79-8         60101         587         Fungicide         Benzimidazole           Thiabendazole, hypophosphite salt         28558-32-9         60102         1952         Fungicide         Benzimidazole           Thiophanate         23564-06-9         #####         1684         Fungicide         Benzimidazole           Thiophanate-methyl         23564-05-8         #####         1696         Fungicide         Benzimidazole           Thiophanate-methyl         23564-05-8         #####         NA 110         N/A         Carboxamide           Chlorophthalimido)cyclohexane carboxamide         51971-67-6         ######         NA 110         N/A         Carboxamide			<del>                 </del>	2176		
Carboxamide Carboxamide Carboxamide Carboxamide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Cyclafuramide Fundation Fundation Cyclafuramide Fundation Fundation Cyclafuramide Fundation Fundation Cyclafuramide Fundation Fundation Cyclafuramide Fundation Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Fundation Cyclafuramide Cyclafuramide System Cyclafuramide Cyclafuramide System Cyclafuramide Cyclafuramide System System Syste			#####	NA 121		
Chloriturazole   3615-21-2				1974		
Cypendazole         28559-00-4         #####         NA 156         N/A         Benzimidazole           Fuberidazole         3878-19-1         #####         NA 150         Fungicide         Benzimidazole           Thiabendazole, hypophosphite salt         28558-32-9         60102         1952         Fungicide         Benzimidazole           Thiophanate         23564-06-9         #####         1684         Fungicide         Benzimidazole           Thiophanate-methyl         23564-05-8         #####         1696         Fungicide         Benzimidazole           1-(3-         51971-67-6         #####         NA 110         N/A         Carboxamide           Carboxamide         Carboxamide         William         NA 140         N/A         Carboxamide           Carboxin         5234-68-4         90201         1755         Fungicide         Carboxamide           Cyclafuramide         34484-77-0         #####         NA 132         Fungicide         Carboxamide           Enfuram         24691-80-3         NA 188         NA 187         Fungicide         Carboxamide           Furmecyclox (Xyligen B)         60568-05-0         #####         NA 18         Fungicide         Carboxamide           Metsulfovax         21452-18-				NA 139		
Thiabendazole			#####	NA 156		
Thiabendazole			#####	NA 150		
Thiophanate			60101	587		
Thiophanate   23564-06-9   #####   1684   Fungicide   Benzimidazole		28558-32-9	60102	1952		
Thiophanate-methyl 23564-05-8 ##### 1696 Fungicide Benzimidazole  1-(3- chlorophthalimido)cyclohexane carboxamide  Carboxin 5234-68-4 90201 1755 Fungicide Carboxamide  Cisanilide 34484-77-0 ##### NA 144 Herbicide Carboxamide  Cyclafuramide 34849-42-8 ##### NA 132 Fungicide Carboxamide  Fenfuram 24691-80-3 NA 188 NA 187 Fungicide Carboxamide  Furmecyclox (Xyligen B) 60568-05-0 ##### NA 18 Fungicide Carboxamide  Methfuroxam 28730-17-8 ##### NA 949 Fungicide Carboxamide  Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide  Nitrofurazone (not subject to 59-87-0 ##### NA 128						
Thiophalate-methyl   23564-05-8   #####   1696   Fungicide   Benzimidazole   precursor					Fungicide	Benzimidazole
1-(3- chlorophthalimido)cyclohexane	i mophanate-methyl	23564-05-8	#####	1696	Fungicide	
Carboxamide	1 (2	61071 67 6				i i i i i i i i i i i i i i i i i i i
Carboxamide         Carboxin         5234-68-4         90201         1755         Fungicide         Carboxamide           Cisanilide         34484-77-0         #####         NA 144         Herbicide         Carboxamide           Cyclafuramide         34849-42-8         #####         NA 132         Fungicide         Carboxamide           Fenfuram         24691-80-3         NA 188         NA 187         Fungicide         Carboxamide           Furmecyclox (Xyligen B)         60568-05-0         #####         NA 18         Fungicide         Carboxamide           Methfuroxam         28730-17-8         #####         NA 949         Fungicide         Carboxamide           Metsulfovax         21452-18-6         NA 189         NA 188         Fungicide         Carboxamide           Nitrofurazone (not subject to         59-87-0         #####         NA 128         NIA         Carboxamide	chlorophthalimido)cyclohevana	219/1-67-6	#####	NA 110	N/A	
Carboxin         5234-68-4         90201         1755         Fungicide         Carboxamide           Cisanilide         34484-77-0         #####         NA 144         Herbicide         Carboxamide           Cyclafuramide         34849-42-8         #####         NA 132         Fungicide         Carboxamide           Fenfuram         24691-80-3         NA 188         NA 187         Fungicide         Carboxamide           Furmecyclox (Xyligen B)         60568-05-0         #####         NA 18         Fungicide         Carboxamide           Methfuroxam         28730-17-8         #####         NA 949         Fungicide         Carboxamide           Metsulfovax         21452-18-6         NA 189         NA 188         Fungicide         Carboxamide           Nitrofurazone (not subject to         59-87-0         #####         NA 128         NA 128         NA 128						
Cisanilide         34484-77-0         ####         NA 144         Herbicide         Carboxamide           Cyclafuramide         34849-42-8         #####         NA 132         Fungicide         Carboxamide           Fenfuram         24691-80-3         NA 188         NA 187         Fungicide         Carboxamide           Furmecyclox (Xyligen B)         60568-05-0         #####         NA 18         Fungicide         Carboxamide           Methfuroxam         28730-17-8         #####         NA 949         Fungicide         Carboxamide           Metsulfovax         21452-18-6         NA 189         NA 188         Fungicide         Carboxamide           Nitrofurazone (not subject to         59-87-0         #####         NA 128         NA 128         NA 128		5224 60 4	00001			
Cyclafuramide 34849-42-8 ##### NA 132 Fungicide Carboxamide Fenfuram 24691-80-3 NA 188 NA 187 Fungicide Carboxamide Furmecyclox (Xyligen B) 60568-05-0 ##### NA 18 Fungicide Carboxamide Methfuroxam 28730-17-8 ##### NA 949 Fungicide Carboxamide Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide Nitrofurazone (not subject to 59-87-0 ##### NA 128 NIA						Carboxamide
Fenfuram 24691-80-3 NA 188 NA 187 Fungicide Carboxamide  Furmecyclox (Xyligen B) 60568-05-0 ##### NA 18 Fungicide Carboxamide  Methfuroxam 28730-17-8 ##### NA 949 Fungicide Carboxamide  Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide  Nitrofurazone (not subject to 59-87-0 ##### NA 128 N/A						
Furmecyclox (Xyligen B) 60568-05-0 ##### NA 18 Fungicide Carboxamide  Methfuroxam 28730-17-8 ##### NA 949 Fungicide Carboxamide  Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide  Nitrofurazone (not subject to 59-87-0 ##### NA 128 N/A						
Methfuroxam 28730-17-8 ##### NA 949 Fungicide Carboxamide  Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide  Nitrofurazone (not subject to 59-87-0 ##### NA 128 N/A						Carboxamide
Metsulfovax 21452-18-6 NA 189 NA 188 Fungicide Carboxamide  Nitrofurazone (not subject to 59-87-0 ##### NA 128 N/A						
Nitrofurazone (not subject to 59-87-0 ##### NA 128 N/A Carboxamide						Carboxamide
FIFRA: 8709-e pm 24)  ##### NA 128 N/A Carboxamide						
	FIFRA: 8709-e pm 24)	J9-6/-U	#####	NA 128	N/A	Carboxamide

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		<u>Chomical Class</u>
Oxycarboxin	5259-88-1	90202	1434	Fungicide	Carboxamide
p-Benzoquinone semicarbazone	61566-21-0	#####	NA 133	N/A	Carboxamide
Chlozolinate	72391-46-9	NA 183	NA 182	Fungicide	Dicarboximide
Iprodione	36734-19-7	#####	2081	Fungicide	Dicarboximide
Myclozolin	54864-61-8	NA 209	NA 208	Fungicide	Dicarboximide
N-(2-Ethylhexyl)-1-isopropyl- 4-methyl-4-cyclohexene-1,2- dicarboximide	13358-11-7	#####	NA 121	Synergist	Dicarboximide
N-octyl bicycloheptene dicarboximide	113-48-4	57001	396	Synergist	Dicarboximide
Vinclozolin	50471-44-8	#####	2129	Fungicide	Dicarboximide
Calcium ethylenebis(dithiocarbamate)	5895-18-1	14501	NA 139	Microbiocide	Dithiocarbamate
Cufraneb	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Diammonium ethylenebis(dithiocarbamate)	607313	14502	NA 140	Microbiocide	Dithiocarbamate
<u>Ferbam</u>	14484-64-1	34801	288	Fungicide	Dithiocarbamate
Ferric nitroso dimethyl dithiocarbamate	83542-83-0	######	NA 149	Microbiocide	Dithiocarbamate
Mancopper	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate, Inorganic-Zinc
· Maneb	12427-38-2	14505	369	Fungicide	Dithiocarbamate
Maneb and nickel sulfate hexahydrate (014505 + 050505)	8005-46-7	#####	NA 158	Fungicide	Dithiocarbamate, Inorganic-Nickel
Manganous dimethyldithiocarbamate	15339-36-3	34802	NA 304	Fungicide	Dithiocarbamate
Mercuric dimethyl dithiocarbamate	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury, Heavy metal, Dithiocarbamate
Metam sodium, dihydrate	137-42-8	39003	NA 163	Fumigant, Fungicide, Microbiocide, Algaecide, Nematicide	Dithiocarbamate
Metam-sodium	6734-80-1	39003	616	Fumigant, Herbicide, Fungicide, Microbiocide, Algaecide, Nematicide	Dithiocarbamate
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate, Inorganic-Zinc
Morpholinomethyl dimethyldithiocarbamate	31848-11-0	#####	NA 158	Microbiocide	Dithiocarbamate
Nabam	142-59-6	14503	417	Fungicide, Herbicide	Dithiocarbamate
Phenylmercuric dimethyldithiocarbamate	32407-99-1	66008	NA 555	Microbiocide, Fungicide	Organomercury, Dithiocarbamate, Heavy metal
Potassium ammonium ethylenebis(dithiocarbamate)	22221-14-3	14507	NA 141	Microbiocide	Dithiocarbamate
Potassium dimethyl dithio carbamate	128-03-0	34803	1934	Microbiocide	Dithiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		
Potassium N-hydroxymethyl- N-methyldithio carbamate	51026-28-9	<del>         </del>	1824	N/A	Dithiocarbamate
Potassium N-methyldithio carbamate	137-41-7	39002	970	Fumigant, Fungicide, Microbiocide, Algaecide, Nematicide	Dithiocarbamate
Propineb	12071-83-9	#####	NA 155	Fungicide, Microbiocide	Dithiocarbamate, Inorganic-Zinc
Sodium dimethyl dithio carbamate	128-04-1	34804	548	Fungicide	Dithiocarbamate
Sulfallate	95-06-7	39001	115	Herbicide	Dithiocarbamate
Tert-butyl dimethyl trithio peroxycarbamate	3304-97-0	34807	1383	Rodent Repellent	Dithiocarbamate
Tert- butyldimethyltrithioperoxycarb amate, other related	NA 1130	NA 166	91383	N/A	Dithiocarbamate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and 2-methyl-1- naphthaleneacetamide and 2- methyl-1-naphthaleneacetic acid	75497-92-6	56011	NA 463	Fungicide, Plant Growth Regulator	Dithiocarbamate
Tricopper dichloride dimethyldithiocarbamate	7076-63-3	######	NA 152	Microbiocide	Dithiocarbamate, Inorganic-Copper
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate, Inorganic-Zinc
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate, Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide, Microbiocide, Dog and Cat Repellent	Dithiocarbamate, Inorganic-Zinc
Ziram, cyclohexylamine complex	16509-79-8	34806	1328	Dog and Cat Repellent, Fungicide	Dithiocarbamate, Inorganic-Zinc
2,2'-Dithiobisbenzothiazole	120-78-5	9202	NA 109	Fungicide, Microbiocide, Insecticide	Mercaptobenzothiazo le
2-(dithiocyanomethylthio)- benzothiazole	NA 1346	NA 192	NA 191	Fungicide	Mercaptobenzothiazo le
2- (thiocyanomethylthio)benzothi azole with 2'-hydroxyethyl-2,3- dibromopropionate	79910-32-0	######################################	NA 925	Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole	149-30-4	51701	556	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, 1- (hydroxyethyl)pyridinium salt	5468-43-9	51702	NA 423	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, ferric salt	53404-53-8	51708	NA 426	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, manganese salt	53404-58-3	9201	NA 108	Fungicide, Microbiocide, Insecticide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, monoethanolammonium salt	5902-85-2	51706	NA 424	Fungicide, Microbiocide	Mercaptobenzothiazo le

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u>Onomicus I tame</u>	C11D 11umioci	Code	Code	Ose Type	Chemical Class
2-Mercaptobenzothiazole,	7778-70-3	51707	NA 425	Fungicide,	Mercaptobenzothiazo
potassium salt				Microbiocide	le
2-Mercaptobenzothiazole,	2492-26-4	51704	3064	Microbiocide,	Mercaptobenzothiazo
sodium salt				Fungicide	le
2-Mercaptobenzothiazole,	2492-26-4	51704	613	Fungicide,	Mercaptobenzothiazo
sodium salt				Microbiocide	le
2-Mercaptobenzothiazole, zinc	155-04-4	51705	1449	Fungicide,	Mercaptobenzothiazo
salt	·			Microbiocide	le, Inorganic-Zinc
5-Chloro-2-	5331-91-9	NA 200	NA 199	N/A	Mercaptobenzothiazo
mercaptobenzothiazole	5105.07.0				le
5-Chloro-2-	5406-97-3	51703	1238	Microbiocide	Mercaptobenzothiazo
mercaptobenzothiazole, lauryl pyridinium salt					· le
5-Chloro-2-	5406-97-3	NA 421	1597	Microbiocide,	36
mercaptobenzothiazole, lauryl	3400-97-3	NA 421	1597	Fungicide	Mercaptobenzothiazo
pyridinium salt				rungicide	le
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc	05.01.55.0	, 31705	141.427	Fungicide	le, Inorganic-Zinc
salt				1 ungioruo	ic, morganic-zinc
TCMTB	21564-17-0	35603	971	Microbiocide,	Mercaptobenzothiazo
				Fungicide	le
Ancymidol	12771-68-5	######	1744	Plant Growth	Pyrimidine
				Regulator	
Bupirimate	41483-43-6	#####	2430	Fungicide	Pyrimidine
Cloransulam	159518-97-5	NA 231	NA 231	Herbicide	Triazolopyrimidine
Cloransulam-methyl	147150-35-4	<del>                 </del>	NA 112	Herbicide	Triazolopyrimidine
Dimethirimol	5221-53-4	<del>#####</del>	NA 128	Fungicide	Pyrimidine
Ethirimol	23947-60-6	#####	NA 129	Fungicide	Pyrimidine
Fenarimol	60168-88-9	######	1980	Fungicide	Pyrimidine
Ferimzone	89269-64-7	NA 203	NA 202	Fungicide	Pyrimidine
Flurprimidol	56425-91-3	#####	2320	Plant Growth	Pyrimidine
				Regulator	
: Nuarimol	63284-71-9	#####	NA 126	Fungicide	Pyrimidine
Pyrimethanil	53112-28-0	#####	NA 30	Fungicide	Pyrimidine
Azoxystrobin	131860-33-8	#####	4037	Fungicide	Strobin
Dimoxystrobin	149961-52-4	NA 211	NA 210	Fungicide	Strobin
Kresoxim-methyl	143390-89-0	#####	5451	Fungicide	Strobin
Metominostrobin	133408-50-1	NA 211	NA 210	Fungicide	Strobin
Picoxystrobin	117428-22-5	NA 211	NA 210	Fungicide	Strobin
Pyraclostrobin	175013-18-0	NA 211	NA 210	Fungicide	Strobin
Trifloxystrobin	141517-21-7	#####	5321	Fungicide	Strobin
Chloroneb	2675-77-6	27301	135	Fungicide	Substituted Benzene
Chlorothalonil	1897-45-6	81901	677	Fungicide	Substituted Benzene
Dichlobenil	1194-65-6	27401	112	Herbicide	Substituted Benzene
Dichloran	99-30-9	31301	81	Fungicide	Substituted Benzene
PCNB	82-68-8	56502	464	Fungicide,	Substituted Benzene
	İ			Nematicide,	
				Algaecide	
PCNB, other related	NA 1100	NA 163	90464	Fungicide,	Substituted Benzene
				Algaecide,	
Captafol	100444	01700	NTA 707	Nematicide	
	190444	81702	NA 787	Fungicide	Thiophthalimide
Captafol (cis isomer)	2939-80-2	81701	292	Fungicide	Thiophthalimide
Captan Captan, other related	133-06-2	81301	104	Fungicide	Thiophthalimide
Capiali, other related	NA 1074	NA 161	90104	Fungicide	Thiophthalimide

Folpet	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Merpafol cis isomer   190444   81701   NA 163   Fungicide   Thiophthalimide   Benalaxyl   71626-11-4   #####   NA 102   Pungicide   Xylylalanine   Furalaxyl   57646-30-7   NA 188   NA 188   Pungicide   Xylylalanine   Allxyl   Amino Propane   Mefenoxam   Offson 17-0   ####   Miles   M						
Metpafol cis isomer   190444   81701   NA 163   Pungicide   Tixophthalimide   Renalaxyl   71626-11-4   ####   NA 102   Fungicide   Xylylalanine   Yylylalanine   NA 188   NA 188   Pungicide   Xylylalanine   NA 188   MA 188   Pungicide   Xylylalanine   NA 194   NA 194   Microbiocide   Alkyl Amino Propane   1-Alkyl-lamino)-3- aminopropane (acetate   Capaba   NA 195   NA 188   NA 188   Pungicide   Xylylalanine   Xylylalanine   NA 195   Pungicide   Xylylalanine   Xylylalanine   Xylylalanine   Metalaxyl   Ma 1152   NA 168   Molecularyl   Pungicide   Xylylalanine   Xylylalanine   Metalaxyl   Ma 1152   NA 168   Molecularyl   Pungicide   Xylylalanine   Xylylalanine   Alkyl Amino Propane   Alkyl Amino Propane   Alkyl Amino Propane   Alkyl Amino Propane   Alkyl Amino Propane   Microbiocide   Alkyl Amino Propane		133-07-3	81601	294	Fungicide	Thiophthalimide
Benalaxyl		190444	81701	NA 163		
Furalaxy		71626-11-4	######	NA 102		<u> </u>
L-Metalaxy	Furalaxyl	57646-30-7	NA 188	NA 188		
Mefenoxam         Model Mefenoxam         NA 1152         NA 168         94011         Fungicide         Xylylalanine           Metalaxyl         57837-19-1         #####         2132         Fungicide         Xylylalanine           Metalaxyl-M         70630-17-0         NA 219         NA 218         Fungicide         Xylylalanine           1-(Alkyl* amino)-3-aminopropane *(47%C12, 8%C16, 8%C8)         67311         NA 586         Microbiocide         Alkyl Amino Propane           1-(Alkyl* amino)-3-aminopropane *(as in fatty acids of coconut oil)         68911-78-4         67306         NA 585         Microbiocide         Alkyl Amino Propane           1-(Alkyl* amino)-3-aminopropane disacetate *(as in fatty acids of coconut oil)         6891-78-4         67306         NA 585         Microbiocide         Alkyl Amino Propane           1-(Alkyl* amino)-3-aminopropane disacetate *(as in fatty acids of coconut oil)         NA 1191         67313         NA 167         Microbiocide         Alkyl Amino Propane           1-(Alkyl* amino)-3-aminopropane monoacetate *(47%C12, 18%C14, 19%C18, 9%C16, 9%C8)         NA 1192         67319         NA 167         Microbiocide         Alkyl Amino Propane           1-(Alkyl* amino)-3-aminopropane monoacetate copper acetate complex         NA 1494         NA 221         NA 221         Microbiocide         Alkyl Amino Propane	L-Metalaxyl	69516-34-3	#####	NA 929		
Mefenoxam, other related   NA 1152   NA 168   94011   Fungicide   Xylylalanine   Metalaxyl-M   70630-17-0   NA 219   NA 218   Fungicide   Xylylalanine   NA 1152   NA 218   Fungicide   Xylylalanine   NA 1152   NA 218   Fungicide   Xylylalanine   NA 1152   NA 218   Fungicide   Xylylalanine   NA 1152   NA 218   Fungicide   Xylylalanine   NA 218   Fungicide   Xylylalanine   NA 218   Fungicide   Xylylalanine   NA 218   Fungicide   Xylylalanine   Alkyl Amino Propane   Alkyl Amino Propane   Microbiocide   Alkyl Amino Propane   M	Mefenoxam	70630-17-0	#####	4011		<del></del>
Metalaxy	Mefenoxam, other related	NA 1152	NA 168	94011		
Metalaxyl-M	Metalaxyl	57837-19-1	######	2132	<del></del>	
1-(Alkyl* amino)-3- aminopropane *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane (as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane diacetate *(37%C18, 29%C16, 3%	Metalaxyl-M	70630-17-0	NA 219	NA 218		
aminopropane "(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)		61791-67-1	67311	NA 586		
8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane *(as in fatty acids of coconut cil)  1-(Alkyl* amino)-3- aminopropane diacetate *(37%C18, 29%C16, 23%C18, 3%C16, 3%C14, 15%C18*, 19%C18*, 19%C18*, 1						
I-{Alkyl* amino}-3-   aminopropane *(as in fatty acids of ecconut oil)     I-{Alkyl* amino}-3-   aminopropane diacetate *(a) **(37%C18*, 29%C16*, 23%C18, 3%C16*, 3%C14*, 1,5%C18*, 1%C14*, 1,6%C15*, 1. [Alkyl* amino}-3-   aminopropane diacetate *(as in fatty acids of ecconut oil)     I-{Alkyl* amino}-3-   aminopropane diacetate *(as in fatty acids of ecconut oil)     I-{Alkyl* amino}-3-   aminopropane monoacetate *(47%C12*, 18%C14*, 10%C18*, 9%C10*, 8%C16*, 8%C8*)     I-{Alkyl* amino}-3-   aminopropane monoacetate *(47%C12*, 18%C14*, 10%C18*, 9%C10*, 8%C16*, 8%C8*)     I-{Alkyl* amino}-3-   aminopropane propionate-   copper acetate complex     I-{alkyl-amino}-3-   aminopropane phydrochloride     I-{alkyl-amino}-3-   aminopropane phydrochloride     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   aminopropane     I-{alkyl-amino}-3-   Alkyl-3-						
aminopropane *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane diacetate *(37%C18, 29%C16, 23%C18, 3%C16, 3%C14, 1.5%C18*, 1.5%C18*, 29%C16, 3%C14, 1.5%C18*, 20%C18, 20%C10, 20%C19, 20%C19, 20%C10, 20%C19, 20%C		4.554				
acids of cocomut oil)  1-(Alkyl* amino)-3- aminopropane diacetate *(37%C18, 29%C16, 23%C18, 3%C16, 3%C14, 1.5%C18", 1%C14', 1%C12, 0.5%C15)  1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of cocomut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 38%C16, 3%C8)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkyl-amino)-3- aminopropane 1-(alkyl-amino)-3- aminopropane 1-(alkyl-amino)-3- aminopropane 1-(alkyl-amino)-3- aminopropane 1-(alkyl-amino)-3- aminopropane 1-(alkyl-amino)-3- aminopropane 1-(6C C C 18) amino-3- aminopropane 1-(6C C C 18) amino-3- aminopropane 1-(6C C C 18) amino-3- aminopropane 1-(6C C C 18) amino-3- aminopropane 1-(6C C R) amino-3- aminopropane 1-(6C R) amino-3- amin		61791-63-7	67301	NA 583	Microbiocide	Alkyl Amino Propane
1-(Alkyl* mino)-3-   aminopropane diacetate *(37%C18, 29%C16, 23%C18, 3%C16, 3%C14, 1.5%C18*; 1½6C14*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C18*; 1½6C14*; 1½6C18						
aminopropane diacetate *(37%C18', 19%C14', 19%C12, 0.5%C15)  1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 19%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkylamino-3-aminopropane monoacetate, alkyl derived from coconut oil fatty acids  Alkyl 1-3-propane diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  acetate, alkyl derived from coconut oil fatty acids  Alkyl Amino Propane  61790-63-7  NA 558  1380  Microbiocide, Alkyl Amino Propane  acetate, alkyl derived from coconut oil fatty acids  Alkyl Amino Propane  diacetate  Alkyl Amino Propane  61790-63-7  NA 558  1380  Microbiocide, Alkyl Amino Propane  61790-63-7  NA 558  Alkyl-1,3-propylene diamine  61790-63-7  NA 558  Alkyl-1,3-propylene diamine  61790-63-7  NA 558  Alkyl Amino Propane		60011 70 4	67206	274 505	36: 1: :1	
*(37%C18', 29%C16, 23%C16, 3%C16', 3%C14', 1%C12, 0.5%C15')  1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate-copper acetate complex  1-(Alkyl-amino)-3- aminopropane propionate-aminopropane hydrochloride  1-(alkyl-amino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-Alkyl-amino-2-aminopropane  68155-43-1 67302 1335 Microbiocide Alkyl Amino Propane monoacetate, alkyl derived from coconut oil fatty acids  Alkyl-3-propane diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  61790-63-7 NA 558 1380 Microbiocide, Alkyl Amino Propane coconut oil fatty acids  Alkyl-1,3-propylene diamine  68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane		00911-70-4	0/300	NA 383	Microbiocide	Alkyl Amino Propane
23%C18, 3%C16, 3%C14, 1.5%C18"; 1%C14', 1%C12, 0.5%C15')  1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate-coper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C8, 6.5%C10, 6%C18, 1-3-propane diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane mococout oil fatty acids  Alkyl-1,3-propylene diamine  68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane				:		
1.5%C18"; 19%C14', 1%C12, 0.5%C15)  1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of coconut oil)  1(Alkyl* amino)-3- aminopropane monoacetate *(as in fatty acids of coconut oil)  1(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 99%C10, 8%C16, 8%C6)  1(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1(alkyl-amino)-3- aminopropane propionate- copper acetate complex  1(alkyl-amino)-3- aminopropane propionate 1(alkyl-amino)-3- aminopropane 1(alkyl-amino)-3-			•			
1-(Alkyl* amino)-3- aminopropane diacetate *(as in fatty acids of coconut oil) 1-(Alkyl* amino)-3- aminopropane monoacetate *(478C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8) 1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex 1-(alkyl-amino)-3- aminopropane hydrochloride 1-(alkylamino)-3- aminopropane hydrochloride 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane 1-alkylamino-2-aminopropane monoacetate, alkyl derived from ecoconut oil fatty acids Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propyale diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate alkyl derived from coconut oil fatty acids						
aminopropane diacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate-copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl amino-2-aminopropane diacetate  1-alkyl amino-2-aminopropane diacetate  1-alkylamino-3- aminopropane dia	0.5%C15)					
aminopropane diacetate *(as in fatty acids of coconut oil)  1-(Alkyl* amino)-3- aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 8%C6)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane  1-alkylamino-2-aminopropane  61791-64-8 67302 1954 Microbiocide  Alkyl Amino Propane  monoacetate, alkyl derived from coconut oil fatty acids  1-Alkyl (S3KC12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine  Alkyl-1,3-propylene diamine  61790-63-7 NA 558 1380 Microbiocide, Alkyl Amino Propane  Microbiocide  Alkyl Amino Propane  Microbiocide  Alkyl Amino Propane  Microbiocide  Alkyl Amino Propane  Microbiocide  Alkyl Amino Propane  Microbiocide  Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  acetate, alkyl derived from  coconut oil fatty acids  Alkyl-1,3-propylene diamine  61790-63-7 NA 558 1380 Microbiocide, Alkyl Amino Propane		NA 1191	67313	NA 167	Microbiocide	Alkyl Amino Propane
1-(Alkyl* amino)-3- aminopropane monoacetate *(47%Cl2, 18%Cl4, 10%Cl8, 9%Cl0, 8%Cl6, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane acetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl amino-2-aminopropane  1-Alkyl derived from coconut oil fatty acids  Alkyl derived from coconut oil fatty acids  Alkyl (53%Cl2, 19%Cl4, 8.5%Cl6, 7%C8, 6.5%Cl0, 6%C18)-1,3-propylene diamine  Alkyl-1,3-propylene diamine  68155-42-0  *#####  1841 Microbiocide, Alkyl Amino Propane  #####  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Alkyl-1,3-propylene diamine  61790-63-7  NA 558  1380  Microbiocide, Alkyl Amino Propane  Soap/Surfactant  Microbiocide, Alkyl Amino Propane  Alkyl-1,3-propylene diamine  61790-63-7  NA 558  1380  Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane  Alkyl-1,3-propylene diamine  acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine  61790-63-7  NA 558  1380  Microbiocide, Alkyl Amino Propane						J
aminopropane monoacetate *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane  1-alkylamino-2-aminopropane  1-Alkylamino-3-aminopropane						
*(47%C12, 18%C14, 10%C18, 9%C10, 8%C68)  1-(Alkyl* amino)-3- aminopropane propionate-copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- Aminopropane  1-(alkylamino)-3- Aminopropane  1-(alkylamino)-3- Aminopropane  1-(alkylamino)-3- Aminopropane  1-(alkylamino)-3- Aminopropane  1-Alkyl (C6 to C18) amino-3- Aminopropane diacetate  1-alkyl (C6-C18) amino-3- Aminopropane diacetate  1-alkylamino-2-aminopropane diacetate  1-alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diacetate  1-Alkylamino-3- Aminopropane diamine hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane Microbiocide, Alkyl Amino Propane Soap/Surfactant Soap/Surfactant Alkyl Amino Propane Soap/Surfactant Alkyl Amino Propane Soap/Surfactant Alkyl Amino Propane Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Sea Sea Sea Sea Sea Sea Sea Sea Sea Se		NA 1192	67319	NA 167		Alkyl Amino Propane
9%C10, 8%C16, 8%C8)  1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane acetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane diacetate  1-alkyl amino-3- aminopropane aminopropane diacetate  1-alkyl derived from coconut oil fatty acids  1-Alkyl amino-3- aminopropane acetate, alkyl derived from coconut oil fatty acids  Alkyl amino-3- aminopropane  68155-43-1  67309  1972  Microbiocide Alkyl Amino Propane Soap/Surfactant  61791-58-0  6					Algaecide	
1-(Alkyl* amino)-3- aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylam						
aminopropane propionate- copper acetate complex  1-(alkyl-amino)-3- aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- Alkyl (C6 to C18) amino-3- aminopropane acetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane  1-alkylamino-2-aminopropane  1-alkylamino-3-aminopropane		NIA 1102	67204	NTA 167	36' 1' 11	
copper acetate complex 1-(alkyl-amino)-3- aminopropane hydrochloride 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl derived from coconut oil fatty acids 1-Alkyl acids Alkyl derived from coconut oil fatty acids Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine C68155-42-0  NA 1494 NA 221 NA 221 Nicrobiocide Alkyl Amino Propane NA 1495 NA 221 NA 221 Microbiocide Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl (53%C12, 19%C14, 8.5%C10, 6%C18)-1,3-propane diamine C68155-42-0  Microbiocide, Soap/Surfactant Alkyl-1,3-propylene diamine C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane C68155-42-0  Microbiocide, Alkyl Amino Propane		NA 1193	67304	NA 16/	Microbiocide	Alkyl Amino Propane
1-(alkyl-amino)-3- aminopropane hydrochloride 1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl amino-3- aminopropane diacetate 1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine Alkyl-1,3-propylene diamine						
aminopropane hydrochloride  1-(alkylamino)-3- aminopropane  1-(alkylamino)-3- carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3- aminopropane acetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids  1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine		NA 1494	NA 221	NA 221	Microbiocide	Allari Amino Propono
1-(alkylamino)-3- aminopropane 1-(alkylamino)-3- carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine 68155-42-0  ##### 1841 Microbiocide, Alkyl Amino Propane  Microbiocide, Alkyl Amino Propane Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine		2122 2 15 1	101221	1471 221	Microbiocide	Aikyi Animo Propane
aminopropane 1-(alkylamino)-3- carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl amino-2-aminopropane 1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine Alkyl-1,3-propylene diamine		68155-37-3	67310	1830	Microbiocide	Alkyl Amino Propane
carboxymethylaminopropane 1-Alkyl (C6 to C18) amino-3- aminopropane acetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane	aminopropane				1,220100100100	Timy Trimio Tropane
carboxymethylaminopropane  1-Alkyl (C6 to C18) amino-3-     aminopropane acetate  1-alkyl (C6-C18) amino-3-     aminopropane diacetate  1-alkylamino-2-aminopropane     monoacetate, alkyl derived     from coconut oil fatty acids  1-Alkylamino-3-aminopropane     hydroxyacetate, alkyl derived     from coconut oil fatty acids  Alkyl (53%C12, 19%C14,     8.5%C16, 7%C8, 6.5%C10,     6%C18)-1,3-propylene diamine     Alkyl-1,3-propylene diamine     acetate, alkyl derived from     coconut oil fatty acids  Alkyl-1,3-propylene diamine     acetate, alkyl derived from     coconut oil fatty acids  Alkyl-1,3-propylene diamine     68155-42-0    Microbiocide   Alkyl Amino Propane   Microbiocide   Alkyl Amino Propane   Alkyl Amino Propane	1-(alkylamino)-3-	NA 1495	NA 221	NA 221	Microbiocide	Alkyl Amino Propane
aminopropane acetate  1-alkyl (C6-C18) amino-3- aminopropane diacetate  1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids  1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine	carboxymethylaminopropane					
1-alkyl (C6-C18) amino-3- aminopropane diacetate 1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids Alkyl-1,3-propylene diamine 68155-42-0  #####  1841 Microbiocide Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane Alkyl Amino Propane		NA 994	NA 721	2365	Microbiocide	Alkyl Amino Propane
aminopropane diacetate  1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids  1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids				<del></del> -		
1-alkylamino-2-aminopropane monoacetate, alkyl derived from coconut oil fatty acids 1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane		61791-64-8	67302	1954	Microbiocide	Alkyl Amino Propane
monoacetate, alkyl derived from coconut oil fatty acids  1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0  #####  1841 Microbiocide, Alkyl Amino Propane  Microbiocide, Soap/Surfactant  Microbiocide, Soap/Surfactant  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  68155-42-0  #####  1841 Microbiocide, Alkyl Amino Propane		(1701 (4.0	(7000			
from coconut oil fatty acids  1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0  #####  1841 Microbiocide, Alkyl Amino Propane  Microbiocide, Soap/Surfactant  Microbiocide, Soap/Surfactant  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine		61791-64-8	67302	1335	Microbiocide	Alkyl Amino Propane
1-Alkylamino-3-aminopropane hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane						
hydroxyacetate, alkyl derived from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane		68155-43-1	67300	1072	Microbiosida	Allerd Amire Descri
from coconut oil fatty acids  Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine  Alkyl-1,3-propylene diamine  68155-42-0  #####  1841 Microbiocide, Alkyl Amino Propane	hydroxyacetate. alkyl derived	00100-70-1	0/309	17/2		
Alkyl (53%C12, 19%C14, 8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane	from coconut oil fatty acids			:	ooap/ourractant	}
8.5%C16, 7%C8, 6.5%C10, 6%C18)-1,3-propane diamine  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane	Alkyl (53%C12, 19%C14,	61791-58-0	67305	1780	Microbiocide	Alkyl Amino Propane
6%C18)-1,3-propane diamine  Alkyl-1,3-propylene diamine acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0  ##### 1841  Microbiocide, Alkyl Amino Propane 1841  Microbiocide, Alkyl Amino Propane	8.5%C16, 7%C8, 6.5%C10,			<b>-</b>		remino r ropatte
acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane	6%C18)-1,3-propane diamine					
acetate, alkyl derived from coconut oil fatty acids  Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane		61790-63-7	NA 558	1380	Microbiocide,	Alkyl Amino Propane
Alkyl-1,3-propylene diamine 68155-42-0 ##### 1841 Microbiocide, Alkyl Amino Propane						
1. Italy i mino i Topano						
I SUIDSIE SIKULDEUG Trom I I I I I I I I I I I I I I I I I I I		68155-42-0	#####	1841		Alkyl Amino Propane
Soap/Surfactant	adipate, alkyl derived from				Soap/Surfactant	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Ci
	Ox 25 1 (dilloon	Code	Code	Ose Type	Chemical Class
coconut oil fatty acids					
Alkyl-1,3-propylene diamine,	NA 287	NA 559	1379	Microbiocide,	Alkyl Amino Propane
alkyl derived from coconut oil				Soap/Surfactant	,
fatty acids N-(2-cyanoethyl)-N-alkyl (C6-	NIA 107	6500			
C18)-1,3-diamino propane	NA 187	67321	1957	Adjuvant	Alkyl Amino Propane
N-Alkyl-1,3-propylene diamine	68188-29-4	67307	1735	Microbiocide,	A 11 - 1 A
monobenzoate, alkyl derived	00100 25 4	0,30,	1733	Soap/Surfactant	Alkyl Amino Propane
from coconut oil fatty acids		ļ :		Soup/Buriaciant	
Tall oil fatty acid soap of N-	61790-55-4	NA 924	3463	Microbiocide,	Alkyl Amino Propane
alkyl (C16-C18) propyl diamine				Insecticide	
2,2'-Methylenebis(4,6-	1940-43-8	55004	274 455		
dichlorophenol)	1940-43-8	55004	NA 455	Microbiocide	Chlorinated Phenol
2,2'-Thiobis(4,6-	97-18-7	64201	NA 539	N/A	Chiamin at 1701 1
dichlorophenol)	2. 20 /	04201	1111 229	14/14	Chlorinated Phenol
2,2,2-Trichloro-N-	3583-63-9	#####	NA 151	N/A	Chlorinated Phenol
(pentachlorophenyl)acetimidoy					omormanod i honor
l chloride	60055 50 0			<u> </u>	•
2,2-methylene bis(4,6-dichlorophenol), sodium salt	68957-70-0	55006	1843	Microbiocide	Chlorinated Phenol
2,3,4,6-tetrachlorophenol,	53535-27-6	63007	1725	Wood	CI.
potassium salt	33333-27-0	03007	1725	wood Preservative,	Chlorinated phenol
			•	Fungicide	•
2,4,5-trichlorophenol	95-95-4	64210	1382	Microbiocide,	Chlorinated phenol
245 77:11				Algaecide	P.10101
2,4,5-Trichlorophenol salt of 2,6-	53404-83-4	64211	NA 542	N/A	Chlorinated Phenol
bis((dimethylamino)methyl)cyc		ļ		·	
lohexanone			,	,	
2,4,5-trichlorophenol,	35471-43-3	64204	1050	Microbiocide	Chlorinated phenol
potassium salt					omormatou phonor
2,4,5-trichlorophenol,	NA 1128	NA 166	91050	Microbiocide	Chlorinated phenol
potassium salt, other related 2,4,5-trichlorophenol, sodium	136-32-3	64017	1656		
salt	130-32-3	64217	1656	Microbiocide	Chlorinated phenol
2,4,5-Trichlorophenol, sodium	3784-03-0	64220	NA 545	Microbiocide,	Chlorinated Phenol
salt		0.220	1111 545	Algaecide	Cinorinated Phenoi
2,4,6-trichlorophenol	88-06-2	64212	640	Microbiocide	Chlorinated phenol
2,4-dichlorophenol	120-83-2	NA 105	2499	N/A	Chlorinated phenol
2-(trichlorophenoxy)ethyl	69633-04-1	#####	NA 152	Herbicide	Chlorinated Phenol
hydrogen sulfate 2-chloro-4-phenylphenol	02.04.6				
2-chloro-4-phenylphenol,	92-04-6 18128-16-0	62206	846	Microbiocide	Chlorinated Phenol
potassium salt	18128-10-0	62207	1061	Microbiocide	Chlorinated Phenol
2-chloro-4-phenylphenol,	31366-97-9	62215	1632	Microbiocide	Chlorinated Phenol
sodium salt		0.2.2.0	1032	Micropiocide	Cinormated Phenor
2-Chlorophenol	95-57-8	62204	NA 504	Microbiocide	Chlorinated Phenol
3-chloro-2-biphenylol, sodium	10605-11-5	62213	NA 505	Microbiocide	Chlorinated Phenol
salt	774 061				
4 & 6 - chloro-2-phenylphenol 4 & 6 - chloro-2-phenylphenol,	NA 964	NA 419	1566	Microbiocide	Chlorinated Phenol
potassium salts, mixed	NA 965	NA 420	1604	Microbiocide	Chlorinated Phenol
4 & 6 - chloro-2-phenylphenol,	NA 963	NA 413	1594	Microbiocide	Chlorings 173
sodium salts, mixed		1111 713	1394	wricioniocide	Chlorinated Phenol
4 & 6-chloro-2-phenylphenol,	NA 1132	NA 166	91566	Microbiocide	Chlorinated phenol
					priction

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u> </u>	<u>Orio Tyuniou</u>	Code	Code	OSC TYPE	Chemical Class
other related					
4 or 6-chloro-2-phenylphenol	53537-62-5	62216	NA 507	Microbiocide	Chlorinated Phenol
4 or 6-chloro-2-phenylphenol,	53537-63-6	62214	NA 506	Microbiocide	Chlorinated Phenol
diethanolamine salt				1.220100100100	omormatod i nenor
4,6-dichloro-2-phenylphenol	5335-24-0	64216	1062	Microbiocide	Chlorinated phenol
4,6-dichloro-2-phenylphenol,	53404-30-1	64215	1059	Microbiocide	Chlorinated phenol
potassium salt				:	F
4-chloro-2-cyclopentyl phenol,	35471-38-6	64214	1237	Microbiocide,	Chlorinated phenol
potassium salt				Fungicide	
4-chloro-2-cyclopentylphenol	13347-42-7	64202	836	Microbiocide,	Chlorinated phenol
	207.40.7			Fungicide	
4-chloro-2-phenylphenol	607-12-5	62208	945	Microbiocide	Chlorinated Phenol
4-chloro-2-phenylphenol,	53404-21-0	62209	947	Microbiocide	Chlorinated Phenol
potassium salt	10605 10 4	60010	046		
4-chloro-2-phenylphenol, sodium salt	10605-10-4	62212	946	Microbiocide	Chlorinated Phenol
4-chloro-cyclopentylphenol,	53404-20-9	64218	1395	Missolisside	
sodium salt	33404-20-9	04216	1393	Microbiocide, Fungicide	Chlorinated phenol
6-chloro-2-phenylphenol	85-97-2	62210	948	Microbiocide	Chlorinated Phenol
6-chloro-2-phenylphenol,	18128-17-1	62211	950	Microbiocide	Chlorinated Phenol
potassium salt	10120-17-1	02211	730	Microbiocide	Chiormated Phenor
6-chloro-2-phenylphenol,	63992-41-6	NA 414	949	N/A	Chlorinated phenol
sodium salt				1771	Chiormated phenor
6-chlorothymol	89-68-9	80403	NA 775	N/A	Chlorinated Phenol
6-tert-Butyl-4-chloro-m-cresol	30894-16-7	#####	NA 127	Microbiocide	Chlorinated Phenol
Chlorbisan	4418-66-0	64208	127	Microbiocide	Chlorinated Phenol
Chloroxylenol	88-04-0	86801	925	Microbiocide	Chlorinated phenol
Copper pentachlorophenate	15773-35-0	63011	NA 512	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Copper
				Microbiocide,	
				Algaecide,	
		·		Fungicide	
Dehydroabietylamine pentachlorophenate	35109-57-0	4202	NA 72	Wood	Chlorinated Phenol
pentacmorophenate				Preservative,	
				Microbiocide,	
				Algaecide, Fungicide	
Dichlorophene	97-23-4	55001	206	Herbicide,	Chlorinated Phenol
1			200	Fungicide,	Cinormated I fiction
				Microbiocide	
Disodium 2,2'-	3247-34-5	44903	NA 380	N/A	Chlorinated Phenol
methylenebis(3,4,6-				,	
trichlorophenate)					
Ethylmercury	22232-28-6	41504	NA 359	Microbiocide	Organomercury,
pentachlorophenate					Chlorinated Phenol,
Transfelo	07.04.5	64000	274		Heavy metal
Fenticlor	97-24-5	64209	NA 541	Microbiocide	Chlorinated Phenol
Hexachlorophene	70-30-4	44901	322	Microbiocide,	Chlorinated Phenol
Hexachlorophene, sodium salt	5736-15-2	44902	412	Fungicide	Ohla i 171
Ortho-benzyl-para-	120-32-1	62201	413	Microbiocide	Chlorinated Phenol
chlorophenol	120-32-1	02201	522	Microbiocide, Fungicide	Chlorinated phenol
Ortho-benzyl-para-	35471-49-9	62202	936	Microbiocide	Chlorinated -11
chlorophenol, potassium salt	JJ411-43-3	02202	230	14110100100106	Chlorinated phenol
Ortho-benzyl-para-	3184-65-4	62203	937	Microbiocide,	Chlorinated phenol
chlorophenol, sodium salt	,		/ / /	Fungicide	omormated biteliol
	L	<u> </u>		- mp10100	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		
Para-chloro-meta-cresol	59-50-7	64206	1813	Microbiocide, Fungicide	Chlorinated Phenol
para-Chloro-ortho-cresol	1570-64-5	62190	NA 503	N/A	Chlorinated Phenol
Para-chlorophenol	106-48-9	NA 124	1572	N/A	Chlorinated phenol
PCP	87-86-5	63001	465	Wood Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide,	Chlorinated Phenol
				Herbicide	
PCP, other related	NA 1101	NA 163	90465	Wood Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	Chlorinated Phenol
PCP, potassium salt	7978-73-6	63002	1049	Wood Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	Chlorinated Phenol
PCP, sodium salt	131-52-2	63003	540	Wood	Chlorinated Phenol
			,	Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	
PCP, sodium salt, other related	NA 1110	NA 164	90540	Wood	Chlorinated Phenol
		·		Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	
Pentachlorophenol, zinc salt	2917-32-0	63008	NA 510	Wood Preservative, Microbiocide, Algaecide, Fungicide	Chlorinated Phenol, Inorganic-Zinc
Pentachlorophenyl laurate	3772-94-9	63010	NA 511	Wood Preservative, Microbiocide, Algaecide, Fungicide	Chlorinated Phenol
Potassium 2,2'- methylenebis(3,4,6- trichlorophenate)	67923-62-0	44904	NA 381	Microbiocide	Chlorinated Phenol
Potassium 2,4,6- trichlorophenate	2591-21-1	64219	NA 544	Microbiocide	Chlorinated Phenol
Potassium ortho-cyclopentyl- para-chlorophenate	35471-38-6	64214	1542	Microbiocide, Fungicide	Chlorinated phenol
Sodium 2,2'-methylenebis(4- chlorophenate)	10254-48-5	55005	NA 456	Insecticide, Fungicide, Microbiocide	Chlorinated Phenol
Sodium chlorophenates	35535-81-0	62205	773	N/A	Chlorinated Phenol
Sodium dichlorophenate	NA 1399	NA 197	NA 196	Fungicide,	Chlorinated Phenol

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Inc True	T 67 : 1 6:
<u> </u>	C210 IVIIIIOCI	Code	Code	Use Type	Chemical Class
				Microbiocide	
Sodium p-chloro-m-cresolate	15733-22-9	64205	NA 540	Microbiocide	Chlorinated Phenol
Tetrachlorophenol	25167-83-3	63004	777	Wood	Chlorinated phenol
				Preservative,	Omormated phenor
				Fungicide	
Tetrachlorophenol, alkylamine	NA 1007	NA 938	1401	Wood	Chlorinated phenol
salt		İ		Preservative,	•
Tetrachlorophenol, coconut	NA 1000	371 000	4455	Fungicide	
amine salt	NA 1008	NA 939	1455	Wood	Chlorinated phenol
diffinite Safe				Preservative,	
Tetrachlorophenol, other	NA 1118	NA 165	90777	Fungicide Wood	Chi
related	1.1110	1421 103	70111	Preservative,	Chlorinated phenol
			•	Fungicide	
Tetrachlorophenol, potassium	53535-27-6	63007	1753	Wood	Chlorinated phenol
salt				Preservative,	o-addition phonor
				Fungicide	
Tetrachlorophenol, sodium salt	25567-55-9	63005	776	Wood	Chlorinated phenol
1				Preservative,	
Tetrachlorophenol, sodium salt,	NA 1117	NIA 165	00000	Fungicide	
other related	NA III/	NA 165	90776	Wood	Chlorinated phenol
:				Preservative,	
Tetrachlorophenols, alkyl*	137543-70-5	63006	NA 509	Fungicide Wood	Chlorinated Phenol
amine salt *(as in fatty acids of		05000	1121 309	Preservative,	Cmormated Phenoi
coconut oil)				Fungicide	
Trichlorophenol	95-95-4	64210	1189	Microbiocide,	Chlorinated phenol
The state of the s			·	Algaecide	F_0101
Trichlorophenol, sodium salt	136-32-3	64217	960	Microbiocide, Algaecide	Chlorinated phenol
Trichlorophenol, sodium salt,	NA 1127	NA 166	90960	Microbiocide	Chlorinated phenol
other related					
Triclosan	3380-34-5	54901	1371	Microbiocide	Chlorinated Phenol
Vancide 30-R Zinc 2,4,5-trichlorophenate	6385-58-6	64203	612	Microbiocide	Chlorinated Phenol
Zinc 2,4,5-trichlorophenate	136-24-3	64221	NA 546	N/A	Chlorinated Phenol,
Zinc trichlorophenate	30143-22-7	64213	NA 543	76: 1: ::	Inorganic-Zinc
	30143-22-7	04213	NA 343	Microbiocide	Chlorinated Phenol,
1,3-bis (dihydroxymethyl)-5,5-	6440-58-0	#####	2298	Fungicide,	Inorganic-Zinc Hydantoin
dimethylhydantoin			2270	Herbicide,	riydaniom
				Microbiocide	
1,3-dibromo-5,5-	77-48-5	6317	4036	Microbiocide,	Hydantoin
dimethylhydantoin	1			Fungicide,	•
1,3-dichloro-5,5-	110.50.5			Herbicide	
dimethylhydantoin	118-52-5	28501	37	Microbiocide,	Hydantoin
dimonymydaniom	l			Fungicide,	
1,3-Dichloro-5-ethyl-5-	89415-87-2	#####	2264	Herbicide Microbiocide,	TYJ
methylhydantoin			2207	Fungicide,	Hydantoin
	<u> </u>			Herbicide	
1-bromo-3-chloro-5,5-dimethyl	16079-88-2	6315	2080	Microbiocide,	Hydantoin
hydantoin				Fungicide,	,
1 17.4				Herbicide	
1-Hydroxymethyl-5,5-dimethyl	116-25-6	#####	2306	Fungicide,	Hydantoin
hydantoin		[		Herbicide,	
				Microbiocide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	_	<u>Code</u>	Code		
3-Bromo-1-chloro-5,5- dimethylhydantoin	126-06-7	6322	NA 92	Microbiocide, Fungicide, Herbicide	Hydantoin
3-Hydroxymethyl-5,5-dimethyl hydantoin	NA 1478	NA 220	NA 219	Fungicide	Hydantoin
Dimethylol dimethyl hydantoin	6440-58-0	<del>}}#####</del>	2524	Fungicide, Herbicide, Microbiocide	Hydantoin
Acetalized polyvinyl alcohol complexed with iodine	NA 1185	46926	NA 166	Microbiocide	Iodine Compound
Alkyl (29%C14, 29%C13, 21%C12, 21%C15) poly(oxypropylene) poly (oxyethylene) - iodine complex	NA 973	NA 557	2063	Microbiocide	Iodine Compound
Alkyl (C12-C15)- poly(oxypropylene) poly(oxyethylene) - iodine complex	NA 972	NA 556	1734	Microbiocide	Iodine Compound
Alkyl(C12-C15) poly(oxypropylene)poly(oxyet hylene)-iodine complex	NA 1195	46918	NA 168	Microbiocide	Iodine Compound
Alkyl* (ethyl cycloimidinium) 3-hydroxy-3-ethyl sodium alcoholate, 2-methyl sodium carboxylate-tridecyl polyoxyethylene ethanol	NA 1211	46906	NA 169	Microbiocide	Iodine Compound
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride polyethoxypolypropoxypolyeth oxyethanol - iodine complex *(50%C12, 30%C14, 1	NA 1198	46907	NA 168	Microbiocide, Microbiocide	Iodine Compound, Quaternary Ammonium Compound
Alkyl* poly(oxypropylene)poly(oxyet hylene)-iodine complex *(43%C10, 30%C14, 12%C12, 10%C16, 5%C18)	NA 1214	46925	NA 170	Microbiocide	Iodine Compound
Butoxy polypropoxy polyethoxy ethanol - iodine complex	68610-00-4	46901	1633	Microbiocide	Iodine Compound
Diethanolamine myristate - iodine complex	53404-40-3	46910	NA 406	Microbiocide	Iodine Compound
Iodophors	39392-86-4	NA 213	NA 212	Microbiocide	Iodine Compound
Nonyl phenoxy poly (oxyethylene) amine sulfonate ethanol - iodine	NA 927	NA 39	1610	Microbiocide	Iodine Compound
Nonyl phenoxy polyoxyethylene ethanol-iodine complex	35860-86-7	46903	870	Microbiocide	Iodine Compound, Polyalkyloxy Compound
Octylphenoxy polyethoxy ethanol - iodine complex	53404-04-9	46915	2172	Microbiocide, Fungicide, Herbicide	Iodine Compound
Poly oxyethylene ethanol monoesters of 5- (and 6-) carboxy-4-hexyl-2- cyclohexene-1-octanoic acid, complex with iodine	82010-75-1	46924	2261	Microbiocide	Iodine Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chomical Class
Poly propoxy poly ethoxy ethanol, I2 complex	NA 232	NA 453	1828	Microbiocide	Iodine Compound
Polyethoxy polypropoxy polyethoxy ethanol - iodine complex	26617-87-8	46904	1585	Microbiocide	Iodine Compound
Polyethoxy polypropoxy polyethoxy ethanol - iodine complex	NA 1286	46909	NA 174	Microbiocide	Iodine Compound
Polyethoxypolypropoxypolyeth oxyethanol-n-alkyl (54% C12, 18% C14, 9% C16, 9% C18, 5% C10, 5% C8) di(beta- hydroxyethyl) benzyl am	NA 1287	46913	NA 175	Microbiocide	Iodine Compound, Quaternary Ammonium Compound
Polyethylene glycol ether of linear secondary alcohol - iodine complex	68439-47-4	46921	2121	Microbiocide	Iodine Compound
Polyvinyl pyrrolidone - iodine complex	25655-41-8	46914	1611	Microbiocide	Iodine Compound
Sodium dodecylbenzene sulfonate - iodine complex	53467-01-9	46920	1569	Microbiocide	Iodine Compound
Sodium N-alkyl-N-palmitoyl taurate-iodine complex	NA 290	NA 562	1568	Microbiocide	Iodine Compound
Sodium N-cyclohexyl-N- palmitoyl taurate - iodine complex	53404-81-2	46919	2089	Microbiocide	Iodine Compound
Tetraglycine hydroperiodide	7097-60-1	46923	1923	Microbiocide	Iodine Compound
Tridecylpoly(ethyleneoxy)etha nol - iodine complex	53404-05-0	46911	NA 407	Microbiocide	Iodine Compound
Triethanolamine octylsulfate - iodine complex	82010-77-3	46922	NA 409	Microbiocide	Iodine Compound
2-(4-chlorophenylmethyl)- 3(2H)-isothiazolone	26530-09-6	#####	NA 125	Microbiocide	Isothiazolone
2-cyclohexyl-4,5-dichloro-4- isothiazolin-3-one	57063-29-3	<del>#####</del>	NA 166	Insecticide	Isothiazolone
2-cyclohexyl-4,5-dichloro-4- isothioazolin-3-one	57063-29-3	#####	NA 938	Insecticide	Isothiazolone
2-Methyl-3(2H)-isothiazolone, calcium chloride complex	57373-20-3	######	NA 895	Microbiocide	Isothiazolone
2-methyl-4,5-trimethylene-4- isothiazolin-3-one	82633-79-2	#####	5013	Microbiocide	Isothiazolone
2-methyl-4-isothiazolin-3-one	2682-20-4	<del>#####</del>	2039	Microbiocide	Isothiazolone
3(2H)-chloro-2-methyl-3(2H)- isothiazolone, calcium chloride complex	57373-19-0	#####	NA 894	Microbiocide	Isothiazolone
4,5-dichloro-2-n-octyl-3(2H)- isothiazolone	64359-81-5	#####	3982	Microbiocide, Antifoulant	Isothiazolone
4-chloro-2-n-octyl-3(2H)- isothiazolone	64359-80-4	#####	NA 102	Microbiocide	Isothiazolone
5-chloro-2-((4- chlorophenyl)methyl)-3(2H)- isothiazolone, compd. With 2- ((4-chlorophenyl)methyl)- 3(2h)-isothiazolone (1:1)	83542-80-7	#####	NA 125	Microbiocide	Isothiazolone
5-chloro-2-(4- chlorophenylmethyl)-3(2H)- isothiazolone	66159-95-3	#####	NA 125	Microbiocide	Isothiazolone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Ico Trans	01
<u>Shomhola Ivaille</u>	<u>CAB Ivaniber</u>	Code	Code	Use Type	Chemical Class
5-chloro-2-methyl-4- isothiazolin-3-one	26172-55-4	#####	2038	Microbiocide	Isothiazolone
5-chloro-2-methyl-4- isothiazolin-3-one calcium chloride with 2-methyl-4- isothazolin-3-one calcium chloride	55965-87-2	######	NA 896	Microbiocide	Isothiazolone
Kathon 886 (kathon biocide)	55965-84-9	#####	NA 24	Microbiocide	Isothiazolone
Octhilinone	26530-20-1	99901	1881	Microbiocide, Fungicide	Isothiazolone
2,4,6-triisopropyl phenol	376389	NA 116	3492	N/A	Phenols
2,4-xylenol	105-67-9	86804	638	Solvent, Fungicide, Microbiocide	Phenols
2,6-bis (1-methyl heptadecyl)- p-cresol	5012-62-4	NA 106	3069	Microbiocide	Phenols
2-tert-Amylphenol	87-26-3	64119	NA 538	Microbiocide	Phenols
4-Hexylresorcinol	136-77-6	71403	NA 671	N/A	Phenols
4-Octylresorcinol	6565-70-4	71402	NA 670	N/A	Phenols
5-isopropyl-o-cresol	499-75-2	22104	1877	Microbiocide	Phenols
Butylated hydroxy toluene	128-37-0	22105	1309	Preservative	Phenols
Carbolic acid	108-95-2	64001	107	Microbiocide, Nematicide	Phenols
Coal tar phenols	1319-77-3	22101	1720	N/A	Petroleum derivative, Phenols
Cresol	1319-77-3	NA 219	NA 218	Insect Repellent, Microbiocide	Phenols
Diisobutyl cresoxy ethoxy ethyl dimethyl benzyl ammonium chloride- ortho- phenylphenol ethoxy nonyl phenol complex	53466-87-8	69155	1643	Microbiocide	Phenols
Diisopropyl cresol	31291-59-5	22107	NA 176	Microbiocide	Phenols
Diisopropyl phenols	NA 170	NA 329	3638	N/A	Phenols
Hydroxymercury cresol	12379-66-7	46001	NA 390	Microbiocide	Inorganic-Mercury, Heavy metal, Phenols
Isopropyl cresol	499-75-2	22104	1161	Microbiocide	Phenols
Isopropyl phenol	25168-06-3	NA 155	3256	Microbiocide	Phenols
Meta-cresol	108-39-4	22102	378	Microbiocide	Phenols
Nonyl phenol	25154-52-3	NA 44	3304	Adjuvant	Phenols
o-cresol	95-48-7	NA 374	3113	Microbiocide	Phenois
o-Phenylphenol, alkyl* amine - zinc salt of *(100% C18)	82010-74-0	64107	NA 533	Microbiocide	Phenols, Inorganic-
o-Phenylphenol, tetradecylamine salt	53404-71-0	64109	NA 534	Microbiocide	Phenols
Octylphenol	27193-28-8	64118	NA 537	N/A	Phenols
Ortho-phenylphenol	90-43-7	64103	448	Microbiocide	Phenols
Ortho-phenylphenol, ammonium salt	52704-98-0	64116	890	Microbiocide	Phenols
Ortho-phenylphenol, potassium salt	13707-65-8	64108	935	Microbiocide	Phenols
Ortho-phenylphenol, sodium salt	132-27-4	64104	248	Microbiocide	Phenols
p-cresol	106-44-5	NA 375	3114	Microbiocide	Phenols

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u>OSC TYPC</u>	Chemical Class
p-Cresyl acetate	140-39-6	NA 186	NA 186	Microbiocide	Phenols
Para-tert-amylphenol	80-46-6	64101	900	Microbiocide	Phenols
Para-tert-amylphenol,	53404-18-5	64111	1056	Microbiocide	Phenols
potassium salt					I Henois
Para-tert-butylphenol	98-54-4	64113	1000	Microbiocide	Phenols
Phenol, dodecyl-, mixed	27193-86-8	NA 656	3323	N/A	Phenols
isomers					
Phenol, ferrous salt	NA 686	NA 126	1862	N/A	Phenols
Phenols	64743-03-9	NA 189	NA 189	Microbiocide, Herbicide	Phenols
Polyvinylpyrrolidone- orthophenylphenol complex	53403-98-8	64110	NA 535	Microbiocide	Phenols
Propoxur phenol	4812-20-8	#####	NA 118	Breakdown product	Phenols
Resorcinol	108-46-3	71401	3375	N/A	Phenols
Sodium cresolate	34689-46-8	#####	NA 142	Microbiocide	Phenols
Sodium para-tert-amylphenate	31366-95-7	64112	1541	Microbiocide,	Phenols
			·	Fungicide	
Sodium para-tert-butylphenate	5787-50-8	64115	1540	Microbiocide	Phenols
Sodium phenate	139-02-6	64002	2164	Microbiocide	Phenols
Thymol	89-83-8	80402	991	Dye	Phenols
Xylenol (unspec. Or mixed from 086804)	1300-71-6	86805	NA 837	N/A	Phenols
2-(2-(p-(disobutyl) phenoxy)	121-54-0	69122	66	Microbiocide	Quaternary
ethoxy) ethyl dimethyl					Ammonium
ammonium chloride 2-(2-(p-(diisobutyl) phenoxy)	101.54.0				Compound
ethoxy) ethyl dimethyl	121-54-0	69164	NA 166	Microbiocide	Quaternary
ammonium chloride					Ammonium
3-(trimethoxysilyl) propyl	27668-52-6	#####	2127	Microbiocide	Compound
dimethyl octadecyl ammonium	27000-32-0	***************************************	2127	Microbiocide	Quaternary
chloride					Ammonium Compound
3-alkoxy (C12-C15)-2-	68187-63-3	#####	2020	N/A	Quaternary
hydroxypropyl trimethyl					Ammonium
ammonium chloride				J	Compound
Acylamido alkylbenzyl	NA 993	NA 705	1442	Algaecide,	Quaternary
dimethyl ammonium chloride			ĺ	Microbiocide	Ammonium
Alkenyl (90%C18, 10%C16)	371 4040				Compound
dimethyl ethyl ammonium	NA 1313	NA 123	1243	Microbiocide,	Quaternary
bromide	İ		[	Adjuvant	Ammonium
Alkenyl* dimethyl ethyl	6458-13-5	69102	NA 620	A loc 1.1	Compound
ammonium bromide	C-20-13-3	09102	NA 620	Algaecide, Microbiocide	Quaternary
*(90%C18', 10%C16')	İ	İ		wricioniocide	Ammonium
Alkenyl* dimethyl ethyl	NA 1187	69198	NA 167	Microbiocide	Compound Quaternary
ammonium bromide					Ammonium
*(90%C18', 10%C16')					Compound
Alkyl (100%C14) dimethyl	139-08-2	69107	2373	Algaecide,	Quaternary
benzyl ammonium chloride			ļ	Microbiocide	Ammonium
Allari (479/C12, 199/C1)	271.60.5				Compound
Alkyl (47%C12, 18%C14, 10%C18, 10%C16, 15%C8-	NA 986	69143	1970	Algaecide,	Quaternary
C10) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride			1		Compound
Alkyl (50%C12, 30%C14,	8023-53-8	69110	2027	A7	
17%C16, 3%C18) dimethyl	0023-33-6	09110	2027	Algaecide, Microbiocide	Quaternary
	<u> L</u>			MICLODIOCIDE	Ammonium

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	333-2750	Cacimear Class
dichlorobenzyl ammonium					Compound
chloride					<u> </u>
Alkyl (50%C12, 30%C14,	NA 987	69143	1850	Algaecide,	Quaternary
17%C16, 3%C18)				Microbiocide	Ammonium
dimethylbenzyl ammonium					Compound
chloride	0045.04				
Alkyl (50%C12, 30%C14,	8045-21-4	69111	1849	Algaecide,	Quaternary
17%C16, 3%C18) dimethylethylbenzyl				Microbiocide	Ammonium
ammonium chloride	1				Compound
Alkyl (50%C14, 40%C12,	NA 988	69143	1846	Algaecide,	O
10%C16) dimethylbenzyl	1171 700	09143	1040	Microbiocide	Quaternary Ammonium
ammonium chloride		1		Wholocide	Compound
Alkyl (50%C14, 40%C12,	68989-01-5	69171	324	Algaecide,	Quaternary
10%C16) dimethylbenzyl			) J.	Microbiocide	Ammonium
ammonium saccharinate		Į			Compound
Alkyl (53%C12, 19%C14,	61789-71-7	69140	3535	Algaecide,	Quaternary
8.5%C16, 7%C8, 6.5%C10,				Microbiocide	Ammonium
6%C18) dimethyl					Compound
benzylammonium chloride					
Alkyl (58%C14, 28%C16,	NA 989	69143	1912	Algaecide,	Quaternary
14%C12) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride	60201 02 5	604.50			Compound
Alkyl (58%C18, 40%C16, 1%C14, 1%C12) trimethyl	68391-03-7	69163	2228	Microbiocide	Quaternary
ammonium chloride					Ammonium
Alkyl (60%C14, 25%C12,	68424-85-1	69105	1956	A1:1-	Compound
15%C16) dimethylbenzyl	00424-03-1	09103	1930	Algaecide, Microbiocide	Quaternary
ammonium chloride				Micropiocide	Ammonium Compound
Alkyl (60%C14, 30%C16,	NA 976	69143	1847	Algaecide,	Quaternary
5%C12, 5%C18)			1047	Microbiocide	Ammonium
dimethylbenzyl ammonium					Compound
chloride					Compound
Alkyl (61%C12, 23%C14,	68989-00-4	#####	1960	Algaecide,	Quaternary
11%C16, 3%C10, 2%C8)				Microbiocide	Ammonium
dimethylbenzyl ammonium				,	Compound
chloride					
Alkyl (61%C12, 23%C14,	NA 977	69143	1975	Algaecide,	Quaternary
11%C16, 5%C18) dimethyl				Microbiocide	Ammonium
benzyl ammonium chloride Alkyl (61%C12, 23%C14,	214 070	601.42	2060		Compound
11%C16, 5%C8,C10,C18)	NA 978	69143	2060	Algaecide,	Quaternary
dimethylbenzyl ammonium	Ì			Microbiocide	Ammonium
chloride					Compound
Alkyl	61789-71-7	69140	2375	Algaecide,	Ouatemore
(61%C12,23%C14,11%C16,2.	02,00-,1-,	05140	2010	Microbiocide	Quaternary Ammonium
5%C8 & C10,2.5%C18)					Compound
dimethyl benzyl ammonium					
chloride					
Alkyl (65%C12, 25%C14,	NA 979	69143	1971	Algaecide,	Quaternary
10%C16) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (67%C12, 25%C14,	NA 980	69143	1853	Algaecide,	Quaternary
7%C16, 1%C8,C10,C18)				Microbiocide	Ammonium
dimethylbenzyl ammonium chloride					Compound
Alkyl (68% C12, 32% C14)	NA 1190	#11111111	NIA 167	A1	
-11.51 (00/0 012, 32/0 014)	TAW 1120	######	NA 167	Algaecide,	Quaternary

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	3110114411001	Code	Code	<u> </u>	Chemical Class
dimethyl dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (68%C12, 32%C14)	85409-23-0	69154	1854	Algaecide,	Quaternary
dimethylethylbenzyl		3220		Fungicide,	Ammonium
ammonium chloride			ł	Microbiocide	Compound
Alkyl (70%C18, 27%C16,	68391-03-7	69163	10	Microbiocide	Quaternary
3%C14) trimethyl ammonium		57.00	-	***************************************	Ammonium
chloride					Compound
Alkyl (90%C14, 5%C12,	8023-53-8	69110	1909	Algaecide,	Quaternary
5%C16) dimethyl				Microbiocide	Ammonium
dichlorobenzyl ammonium					Compound
chloride		1	İ		Compound
Alkyl (90%C14, 5%C12,	68527-84-4	69146	2057	Algaecide,	Quaternary
5%C16) dimethyl ethyl				Microbiocide	Ammonium
ammonium bromide		İ			Compound
Alkyl (90%C14, 5%C12,	NA 981	69143	1977	Algaecide,	Quaternary
5%C16) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (93%C14, 4%C12,	NA 1031	69143	1991	Algaecide,	Quaternary
3%C16) dimethylbenzyl		į		Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (95%C14, 3%C12,	68424-85-1	69105	3855	Algaecide,	Quaternary
2%C16) dimethyl benzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (95%C14, 3%C12,	NA 982	69184	2152	Algaecide,	Quaternary
2%C16) dimethyl benzyl				Microbiocide	Ammonium
ammonium chloride dihydrate					Compound
Alkyl (95%C14, 3%C12,	NA 1322	NA 583	3897	Algaecide,	Quaternary
2%C16) dimethyl benzyl				Microbiocide	Ammonium
ammonium chloride					Compound
monohydrate					
Alkyl (98%C12, 2%C14)	53516-75-9	69112	1839	Algaecide,	Quaternary
dimethyl 1-naphthylmethyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (C10-16) dimethyl amine	61788-90-7	NA 401	3896	Algaecide,	Quaternary
oxide				Microbiocide	Ammonium
					Compound
Alkyl (C14, C12, C16)	NA 985	NA 587	2374	Algaecide,	Quaternary
dimethyl benzyl ammonium				Microbiocide	Ammonium
chloride					Compound
Alkyl (C8-C18) bis (2-	61789-68-2	######	2031	Microbiocide	Quaternary
hydroxyethyl) benzyl					Ammonium
ammonium chloride					Compound
Alkyl (C8-C18) bis (2-	NA 1196	69148	NA 168	Algaecide,	Quaternary
hydroxyethyl) benzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl dimethyl cumenyl	NA 983	NA 584	1919	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
					Compound
Alkyl dimethyl ethyl benzyl	NA 974	NA 580	1002	Microbiocide	Quaternary
ammonium cyclohexyl					Ammonium
sulfonate					Compound
Alkyl dimethyl ethylbenzyl	71808-54-3	69135	1722	Algaecide,	Quaternary
ammonium cyclohexyl				Microbiocide	Ammonium
sulfamate					Compound
Alkyl dimethyl isopropyl	NA 975	69188	884	Microbiocide	Quaternary
benzyl ammonium chloride		ĺ			Ammonium
		·			

Chemical Name   CAS Number   U.S. FPA P.C   CA Chem   Code   Co	Chemical Name	CAS Number	ITIS EDA DO	CA Cham	TT T	1 01 1 101
Alkyl monoethyoxyethanol, diethoxyethyl benzyl ammonium chloride Alkyl morpholinium thoroide Alkyl morpholinium those (1% C14, 22% C14, 22% C14, 22% C14, 22% C14, 22% C16, 77% C18) Alkyl trimethyl ammonium bromides Alkyl morpholinium thosubhate (1% C14, 22% C14, 22% C14, 22% C16, 77% C18) Alkyl trimethyl ammonium bromides  Alkyl trimethyl ammonium chloride Alkyl trimethyl alkyl trimethyl alkyl bis(2-hydroxyethyl)benzyl ammonium chloride (*57% C10, 20% C12, 11% C14, 23% C14, 13% C16, 18% C8-C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*42% C12, 27% C14, 13% C16, 18% C8-C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*57% C18, 20% C14, 20% C12, 20% C16, 10% C16, 20% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C16, 22% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C16, 22% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 13% C16, 12% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 13% C16, 22% C14, 13% C16, 22% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 13% C16, 22% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 13% C16, 22% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 13% C16, 32% C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 15% C16, 33 C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 15% C16, 33 C18) Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride (*67% C12, 27% C14, 57% C14, 57% C19, 27%	<u>Onemour rumo</u>	CAS Number			Use Type	Chemical Class
Ally   monoethyoxyethanol, diethoxyethyl benzyl ammonium chloride   Ally   morpholinium ethosulphate (1% C14, 22% C16, 77% C18)   NA 1523   NA 223   NA 223   Pungicide   Ally   morpholinium ethosulphate (1% C14, 22% C16, 77% C18)   NA 1523   NA 223   Pungicide   Ally   morpholinium ethosulphate (1% C14, 22% C16, 77% C18)   Allxyteinethyl ammonium brottides   NA 1523   NA 223   Pungicide   Allxyteinethyl ammonium chloride   Allxyteinethyl ammonium chloride   Allxyteinethyl ammonium chloride   Allxyteinethyl   Microbiocide   Allxyteinethyl   Microbiocide   Allxyteinethyl   Microbiocide   Allxyteinethyl   Microbiocide   Allxyteinethyl   Microbiocide   Allxyteinethyl   Microbiocide   Microbiocide   Allxyteinethyl   Microbiocide   Microbiocide   Microbiocide   Allxyteinethyl   Microbiocide   M			Code	Code	<del></del>	
diethoxyethyl benzyl ammonium chloride Alkyl morpholinium ethosulphate (1% C14, 22% C16, 77% C18) Alkyl mimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl trimethyl ammonium bromides Alkyl bis(2- hydroxyethyl)benzyl ammonium chloride *(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 19%C8) Alkyl* dimethyl 3.4- dichlorobenzyl ammonium bromides Alkyl* dimethyl 3.4- dichlorobenzyl ammonium bromiu	Alkyl monoethyoxyethanol	NA 205	NIA 677	1045	36: 1: :1	
Ammonium chloride		NA 303	INA 3//	1045	Micropiocide	
Alkyl morpholinium		1				·
Ethosulphate (1% C14, 22% C16, 77% C18)		NIA 1602	NTA 202	374 000		
C16, 77% C18	ethogulabete (19/ C14 229/	NA 1523	NA 223	NA 223	Fungicide	
Alkyl trimethyl ammonium bromides  Alkyl(68%C12, 32%C14)dimethyl dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 27%C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16, 10%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 13%C16)  Alky						
Alkyl(68%C12, 32%C14)dimethyl dimethyl dimethylbenzyl ammonium chloride   Alkyl* bis(2- hydroxyethylbenzyl ammonium chloride   4(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 11%C18, 2%C16, 2%C18, 2%C16, 2%C12, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C18, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C12, 2%C14, 11%C16, 2%C12, 2%C14, 11%C16, 2%C18, 2%C16, 2%C12, 2%C14, 11%C16, 2%C18, 2%C16, 2%C18, 2%C16, 11%C18, 2%C16, 2%C12, 2%C14, 11%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C18, 2%C16, 2%C12, 2%C14, 11%C16, 2%C18, 2%C16, 2%C		60404.00.0		<u> </u>		
Alkyl (68%C12, 32%C14)dimethyl dimethyl s.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 30%C16, 19%C16)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 30%C16, 11%C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 30%C16, 11%C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C18, 344)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C18, 344)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C18, 344)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C18, 344)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 11%C16, 346C18)  Alkyl* dimethyl 3.4 dichlorobenzyl ammonium chloride *(65%C12, 25%		68424-92-0	#####	1827	Microbiocide	
Alkyl (68%C12, 32%C14)dimethyl dimethyl senzyl ammonium chloride (457%C10, 25%C14, 40%C12, 25%C14, 40%C12, 27%C14, 40%C16, 34%C18)  Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride *(50%C12, 40%C12, 10%C16, 25%C16, 10% C16, 10% C16, 10% C12)  Alkyl* dimethyl 3,4-dichlorobenzyl ammonium chloride *(50%C14, 23%C16, 10% C12, 25%C14, 13%C16, 10% C16, 10% C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25%C14, 10%C16, 10% C12, 25% C14, 10%C16, 10% C12, 25% C14, 10%C16, 10% C12, 25% C14, 10%C16, 10% C12, 25% C14, 10%C16, 10% C18	bromides			ł		Ammonium
32%C14)dimethyl dimethylbenzyl ammonium chloride	11 1/600/040					Compound
dimethylbenzyl ammonium   chloride   Alkyl* bis(2- hydroxyethylbenzyl ammonium chloride   (57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 11%C14, 9%C18, 2%C16, 11%C14, 13% C16, 18% C8-C18)   Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride   (47%C10, 27% C14, 13% C16, 18% C8-C18)   Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride   (50%C14, 40%C12, 11%C14, 13% C16, 18% C8-C18)   Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride   (50%C14, 40%C12, 10%C16, 18%C14, 20%C12, 20%C16, 2%C18, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C16, 2%C18, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C14, 20%C16, 2%C18, 20%C14, 20%C16, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C16, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C14, 20%C1		NA 1068	NA 159	5126	Algaecide	Quaternary
chloride Alkyl* bis(2- hydroxyethyl)benzyl ammonium chloride *(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 14%C8) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(42% C12, 27% C14, 13% C16, 18% C8-C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C14, 40%C12, 10%C16) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C14, 23%C12, 20%C16, 2%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C14, 30% C16, 10% C12) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C14, 30% C16, 10% C12) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 15%C16) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 23%C12, 15%C16) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 23%C14, 15%C16) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 23%C14, 15%C16) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 23%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 23%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 10%C16, 3%C18) Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C				i :		Ammonium
Alkyl* bis(2- hydroxyethyl)benzyl ammonium chloride *(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 11%C14, 9%C18, 2%C16, 11%C14, 13% C16, 18% C8-C18)						Compound
hydroxyethyl)benzyl ammonium chloride *(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 19&C8)   NA 1197						
Ammonium chloride   (37%Cl0, 20%Cl2, 11%Cl4, 9%Cl8, 2%Cl6, 1%C8)		91721-81-2	<del>                                       </del>	NA 113	N/A	Quaternary
*(57%C10, 20%C12, 11%C14, 9%C18, 2%C16, 1%C28)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(42% C12, 27%C14, 13% C16, 18% C8-C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C14, 40%C12, 10%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C14, 40%C12, 20%C16, 2%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C14, 23%C12, 20%C16, 2%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25%C14, 15%C16, 23%C12, 20%C16, 2%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 15%C16, 23%C14, 14%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 14%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 22%C14, 15%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 15%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 15%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 15%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 15%C12, 25% C14, 15%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C12, 22%C14, 15%C12, 25% C14, 15%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C12, 25% C14, 15%C12, 25% C14, 15%C12, 25% C14, 15%C12, 25% C14, 15%C13, 24% C14, 24% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C12, 25% C14, 5%C14, 5%C12, 25% C14, 5%C12, 25% C14, 5%C14, 34% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50%C12, 25% C14, 5%C14, 5%C12, 25% C14, 5%C12, 25%			i .			
*\(\frac{8}{2}\) \( \frac{8}{2}\) \( \frac{1}{2}\) \( \					•	Compound
Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(62% C12, 27% C14, 13% C16, 18% C8-C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(50%C14, 40%C12, 10%C16, 18% C8-C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(55%C14, 23%C12, 10%C16, 23%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(56%C14, 30% C16, 10% C12)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(60% C14, 30% C16, 10% C12)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(60% C12, 25%C14, 115%C16)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(63% C12, 23% C14, 14% C16)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(63% C12, 23% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(65% C12, 22% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(55% C12, 25% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(55% C12, 25% C14, 10%C16, 3%C18)   Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium   chloride *(55% C12, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 10%C16, 25% C14, 25% C14, 10%C16, 25% C14, 25% C14, 25% C14, 10%C16, 25% C14, 25						-
dichlorobenzyl ammonium chloride *(42% C12, 27% C14, 13% C16, 18% C8-C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50% C14, 40% C12, 10% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C14, 23% C12, 20% C16, 2% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(50% C14, 23% C12, 20% C16, 2% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C14, 30% C16, 10% C12, 25% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14, 10% C16, 3% C13)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14, 10% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55% C	9%C18, 2%C16, 1%C8)					
Microbiocide	Alkyl* dimethyl 3,4-	NA 1197	#####	NA 168	Algaecide,	Ouaternary
Compound   Compound						
Alkyl* dimethyl 3,4-						
dichlorobenzyl ammonium chloride *(50%C14, 40%C12, 10%C16)						
dichlorobenzyl ammonium chloride *(50%C14, 40%C12, 10%C16)		68989-02-6	#####	NA 112	Algaecide	Quaternary
Compound   Compound						
Alkyl* dimethyl 3,4-   dichlorobenzyl ammonium chloride *(55%C14, 23%C12, 20%C16, 2%C18)	chloride *(50%C14, 40%C12,					
dichlorobenzyl ammonium chloride *(55%C14, 23%C12, 20%C15, 23%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25%C14, 25%C14, 25%C14, 25%C14, 26889-02-6  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 25%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 25%C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 25%C14, 5%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(55%C12, 25%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25%C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)						Compound
dichlorobenzyl ammonium   chloride *(55%C14, 23%C12, 20%C16, 2%C18)	Alkyl* dimethyl 3,4-	92129-28-7	69182	NA 648	Algaecide	Quaternary
Compound	dichlorobenzyl ammonium					
Alkyl* dimethyl 3,4-   68989-02-6   #####   NA 124   Algaecide, Microbiocide   Quaternary Ammonium Compound   Compound	chloride *(55%C14, 23%C12,			[ ]	2,220200200	
dichlorobenzyl ammonium chloride *(60% C14, 30% C16, 10% C12)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 15% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 15% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)						Compound
dichlorobenzyl ammonium chloride *(60% C14, 30% C16, 10% C12)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 15% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 15% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14, 10% C16, 3% C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 27% C14, 5% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)	Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 124	Algaecide	Ousternory
chloride *(60% C14, 30% C16, 10% C12)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60% C12, 25% C14, 15% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 22% C14, 10% C16, 3% C18, 5% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)	dichlorobenzyl ammonium					
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 25%C14,	chloride *(60% C14, 30% C16,				1,110100100100	
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(60%C12, 25%C14,						Сотроши
dichlorobenzyl ammonium chloride *(60%C12, 25%C14, 15%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)		68989-02-6	69180	NA 646	Algaecide	Oustomers
chloride *(60%C12, 25%C14, 15%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)		00,0,0,0	05100	1421 040		
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14,	chloride *(60%C12, 25%C14			ľ	MICIODIOCIDE	
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(63% C12, 23% C14,	15%C16)		ļ			Compound
dichlorobenzyl ammonium chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)		68989-02-6	#####	NA 112	Algagoida	Oucton
chloride *(63% C12, 23% C14, 14% C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)	dichlorobenzyl ammonium	30,0,0,0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14V 113		
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14,				1	Micropiocide	
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(65%C12, 22%C14,	- 1					Compound
dichlorobenzyl ammonium chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)		92129-28-7	60106	NA 652	Algonoide	Ouster
chloride *(65%C12, 22%C14, 10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)	dichlorohenzyl ammonium	14127-20-1	05150	CCO WAT		
10%C16, 3%C18)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14,	chloride *(65%C12 22%C14	l		l	MICLODIOCIGE	
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(68% C12, 27% C14,						Compound
dichlorobenzyl ammonium chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)		68080 02 6	111111111	NIA 114	A11	
chloride *(68% C12, 27% C14, 5%C16)  Alkyl* dimethyl 3,4- 68568-47-8 ##### NA 124 Algaecide, Microbiocide Compound Chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- 68989-02-6 ###### NA 124 Algaecide, Microbiocide Quaternary Ammonium Compound Chloride *(75% C12, 25% C14)	dichlorohenzyl ammonium	U0707-UZ-0	#######	NA 114		Quaternary
S%C16)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Algaecide, Microbiocide Microbiocide Ammonium	chloride *(68% C12 27% C14				Microbiocide	
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  NA 124  Algaecide, Microbiocide  Quaternary Ammonium chloride *(75% C12, 25% C14)	5%(216)					Compound
dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  Microbiocide Quaternary Microbiocide Ammonium		60560 47.0	11,11,11,11	274 101		
chloride *(75% C12, 25% C14)  Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride *(75% C12, 25% C14)  NA 124  Algaecide, Quaternary Microbiocide  Ammonium		08208-47-8	<del>#####</del>	NA 124		
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride */759/ Cl 2 259/ Cl 2					Microbiocide	
dichlorobenzyl ammonium  shloride #/75% C12 25% C14)  Microbiocide Ammonium	Alleri* 4:	60000 05 5				
chlorido */750/ C12 250/ C14)		68989-02-6	######	NA 124		
Compound (75% C12, 25% C14)					Microbiocide	
	[CHOTIGE *(75% C12, 25% C14)]	······				Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Oneimear Class
Alkyl* dimethyl 3,4-	68989-02-6	69145	NA 635	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(90%C14, 5%C16,	]				Compound
5%C12)					
Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 115	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(C12 65%, C14 25%,			1		Compound
C16 10%) Alkyl* dimethyl 3,4-	NA 1198	46007	NIA 160	3.5' 1' '	
dichlorobenzyl ammonium	NA 1198	46907	NA 168	Microbiocide, Microbiocide	Iodine Compound,
chloride				iviicrobiocide	Quaternary Ammonium
polyethoxypolypropoxypolyeth					Compound
oxyethanol - iodine complex					Сотрони
*(50%C12, 30%C14, 1					
Alkyl* dimethyl benzyl	71011-24-0	#####	NA 113	Algaecide,	Quaternary
ammonium bentonite *(as in		i		Microbiocide	Ammonium
fatty acids of tallow)					Compound
Alkyl* dimethyl benzyl	122-18-9	69108	NA 623	Algaecide,	Quaternary
ammonium chloride *(100%				Microbiocide	Ammonium
C16) Alkyl* dimethyl benzyl	122 10 0	,,,,,,,,,	277 444		Compound
ammonium chloride *(100%	122-19-0	#####	NA 114	Algaecide,	Quaternary
C18)	i			Microbiocide	Ammonium
Alkyl* dimethyl benzyl	68391-01-5	69195	NA 652	Algaecide,	Compound
ammonium chloride	00551-01-5	05155	IVA UJZ	Microbiocide	Quaternary Ammonium
*(41%C14, 28%C12, 19%C18,				Wildfoblockic	Compound
12%C16)					Compound
Alkyl* dimethyl benzyl	NA 1199	69168	NA 168	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(47%C12, 18%C14, 15%(C5-					Compound
C15), 10%C18, 10%C16)	0001.54.5	50105	77. 77.		
Alkyl* dimethyl benzyl ammonium chloride	8001-54-5	69106	NA 622	Microbiocide,	Quaternary
*(50%C12, 30%C14, 17%C16,				Algaecide, Herbicide	Ammonium
3%C18)				nerbicide	Compound
Alkyl* dimethyl benzyl	68391-01-5	#####	NA 113	Algaecide,	Quaternary
ammonium chloride *(55%	00551 01 5		1111 113	Microbiocide	Ammonium
C16, 27% C12, 16% C14, 2%	-				Compound
C18)					
Alkyl* dimethyl benzyl	68391-01-5	69169	NA 641	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(55%C16, 20%C14, 20%C12,					Compound
5%C18) Alkyl* dimethyl benzyl	NIA 1200	60141	ATA 160	A 1	
ammonium chloride	NA 1200	69141	NA 168	Algaecide,	Quaternary
*(58%C14, 28%C16, 14%C12)			•	Microbiocide	Ammonium
Alkyl* dimethyl benzyl	68424-85-1	69161	NA 168	Algaecide,	Compound
ammonium chloride *(60%	00 1203-1	02101	147 100	Microbiocide	Quaternary Ammonium
C14, 30% C16, 10% C12)				1.110100100100	Compound
Alkyl* dimethyl benzyl	NA 1201	69137	NA 168	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 25%C12, 15%C16)					Compound
Alkyl* dimethyl benzyl	53516-76-0	69104	NA 621	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 30%C16, 5%C18,					Compound
5%C12) Alkyl* dimethyl benzyl	69201 01 5	(0180	374 550		
Zukyi umietnyi benzyi	68391-01-5	69189	NA 650	Algaecide,	Quaternary

ammonium chloride *(61% C12, 23% C14, 11% C16, 5% C12, 23% C14, 11% C16, 5% C12, 23% C14, 11% C16, 5% C12, 23% C14, 11% C16, 5% C12, 23% C14, 11% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(61% C18)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 23% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 23% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C18)  Alkyl* dimethyl benzyl ammonium chloride *(55% C18)  Alkyl* dimethyl benzyl ammonium chloride *(55% C18)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C16)  Alkyl* dimethyl benzyl ammonium chloride *(55% C1	Chemical Name	CAS Number	IIC EDA DO	CA CI	TT	
ammonium chloride *(61% C12, 23% C14, 11% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(61% C12, 23% C14, 11% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(61% C18)  Alkyl* dimethyl benzyl ammonium chloride *(61% C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 11%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 11%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 10%C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 10%C18, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 10%C18, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 10%C18, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 10%C18, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(69% C12, 5%C16, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(69% C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(69% C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(69%C18, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C18)	Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
C12, 23% C14, 11% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(61% C12, 23% C14, 11% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 12%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 12%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C8, C10, C10, C10, C10, C10, C10, C10, C10	ammonium chloride *(61%		Code	Code	N/:1: 11	
C18  Alkyl* dimethyl benzyl ammonium chloride *(61%, C12, 23% C14, 13% C16, 5% C18, 23% C14, 12% C16)   NA 1203   69199   NA 169   Algaecide, Microbiocide   Ammonium Compound   C18)   Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 23% C14, 12% C16)   Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 10% C16)   Alkyl* dimethyl benzyl ammonium chloride *(65% C12, 25% C14, 7% C16, 1% C8, C10, and C18)   NA 1204   ##### NA 169   Algaecide, Microbiocide   Ammonium Compound   C0					Microbiocide	
Alkyl* dimethyl benzyl ammonium chloride *(61% C12, 23% C14, 11% C16, 5% C18)						Compound
ammonium chloride *(61% C18)  Alxyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 12%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 7%C16, 10%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 23%C14, 7%C16, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68%C12, 25%C14, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 214, C16) *(C10, C12, C14, C16) *(C10, C12,		NTA 1000	0.00 10.00 21	<u> </u>		
C12, 23% C14, 11% C16, 5%   C18		NA 1202	#####	NA 168		
C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 12%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C38, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C38, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C38, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C14, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 64, C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 64, C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 64, C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 64, C16)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 675C18)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 675C18)  Alkyl* dimethyl benzyl ammonium chloride *(675%C12, 675C18)  Alkyl* dimethyl benzyl ammonium chloride *(					Microbiocide	
Alkyl* dimethyl benzyl ammonium chloride   (65%-C12, 23%-C14, 10%-C16)   (68424-85-1)   (69157						Compound
ammonium chloride  (659×C12, 25%C14, 7%C16, 1%C8)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 25%C14, 7%C16, 1%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 25%C14, 7%C16, 1%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 25%C14, 7%C16, 1%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 25%C14, 7%C16, 1%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 25%C14, 7%C16, 1%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68% C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(90%C14, 5%C12, 5%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68% C16, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride  *(67%C12, 27%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68% C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 6%C12, 30%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 6%C12, 30%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 6%C18)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 6%C12, 30%C16)  Alkyl* dimethyl benzyl ammonium chloride  *(68%C12, 6%C18)  Alkyl* dimethyl ethyl ammonium chloride  *(68%C12, 6%C16)  Alkyl* dimethyl ethyl ammonium chloride  *(68%C12, 6%C16)  Alkyl* dimethyl ethyl ammonium chloride  *(68%C12, 6%C16)  Alkyl* dimethyl ethyl ammonium						
*(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 12%C14, 7%C16, 12%C14, 7%C16, 12%C14, 7%C16, 12%C14, 7%C16, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C18, 12%C14, 7%C16, 12%C14, 7%C1		NA 1203	69199	NA 169		Quaternary
Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 7%C16, 19%C18)					Microbiocide	Ammonium
Alkyl* dimethyl benzyl ammonium chloride *(65%C12, 25%C14, 10%C16)	*(65%C12, 23%C14, 12%C16)					Compound
*(65%C12, 25%C14, 7%C16, 1%C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C3, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C3, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(6a in fatty acids of coconut oil)  Alkyl* di		68424-85-1	69157	NA 164		
Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%CC18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%CC3, 210, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%CS, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25%C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(85% C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(10, C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(28-18)  Alkyl* dimethyl benzyl ammonium chloride *(10, C12, C14, C16) *(C10, C					Microbiocide	Ammonium
Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C3, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C3, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25%C14, 7%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(5%C12, 27%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(5%C12, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(5%C12, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 5% C18, 5%C18)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(8a in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium in alkyl** amine *(C12, C14, C16) **(C10, C12,	*(65%C12, 25%C14, 10%C16)					Compound
Ammonium chloride   *(67%C12, 25%C14, 7%C16, 1%C18)		68391-01-5	69175	NA 644	Algaecide,	
**(67%C12, 25%C14, 7%C16, 1%C18, 1%C18, 25%C14, 7%C16, 1%C18, 25%C16, 1%C18, 25%C14, 7%C16, 1%C18, 25%C14, 7%C16, 1%C18, 25%C14, 7%C16, 1%C18, 25%C14, 7%C16, 1%C18, 25%C14, 7%C16, 1%C18, 25%C14, 25%C12, 5%C18, 25%C14, 25%C14, 25%C12, 5%C18, 25%C14, 2	ammonium chloride					
Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 19%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium bromide *(68% C16, 5% C16, 5% C16, 5% C18)  Alkyl* d	*(67%C12, 25%C14, 7%C16,					
ammonium chloride *(67%C12, 25%C14, 7%C16, 19%C8, C10, and C18)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium chloride *(25-18)  Alkyl* dimethyl benzyl ammonium bromide *(25-36)  Alkyl* dimethyl benzyl ammonium bromide *(25-36)  Alkyl* dimethyl dimethyl ammonium chloride *(25-36)  Alkyl* dimethyl dimethyl ammonium chloride *(25-36)  Alkyl* dimethyl dimethyl ammonium chloride *(25-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimethyl ammonium bromide *(35-36)  Alkyl* dimethyl dimet						<b>T</b>
ammonium chloride	Alkyl* dimethyl benzyl	NA 1204	#####	NA 169	Algaecide.	Quaternary
*(67%C12, 25%C14, 7%C16, 1205	ammonium chloride					
Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(50%C12, 30%C14, 6%C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(824)  Alkyl* dimethyl benzyl ammonium chloride *(85% C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(814)  Alkyl* dimethyl benzyl ammonium chloride *(85% C12, 30%C14, 110)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ammonium chlori						
ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(91%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(	1%C8, C10, and C18)					Compound
ammonium chloride *(67%C12, 27%C14, 6%C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(25% C18)  Alkyl* dimethyl benzyl ammonium chloride *(28-18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 15% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 16% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 16% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 16% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 16% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16, 16% C18)  Alkyl* dimethyl ethyl ammonium chloride *(16,		NA 1205	69142	NA 169	Microbiocide	Quaternary
Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C22-5)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(10, 10, 10, 10, 10, 10, 10, 10, 10, 10,						
Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(68% C12, 5% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** ammonium chloride *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl benzyl ammonium chloride *(S5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(C13, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(C13, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(S5% C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ethyl ammonium bromide *(Mixed)  Alkyl* dimethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl ethyl e	*(67%C12, 27%C14, 6%C16)					
ammonium chloride *(68% C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12; 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% C18)  Alkyl* dimethyl benzyl ammonium chloride *(85% Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(25, 20%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl dimethyl benzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium chloride *(mixed)  Alkyl* dimethyl ethyl ammonium chloride *(mixed)  Alkyl* dimethyl ethyl ammonium chloride *(mixed)  Alkyl* dimethyl ethyl ammonium chloride *(mixed)  Alkyl* dimethyl ethyl ammonium chlo		NA 1206	#####	NA 169	Algaecide.	
C12, 25% C14, 7% C16)  Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(c8-18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(c8-18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl d	ammonium chloride *(68%					
Alkyl* dimethyl benzyl ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(83%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C12, C14, C16) *(C12, C14, C16) *(C16, 3%C18)  Alkyl* dimethyl benzyl ammonium chloride *(C12, C14, C16) *(C16, 3%C18)  Alkyl* dimethyl d	C12, 25% C14, 7% C16)					
ammonium chloride *(90%C14, 5%C12, 5%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) Alkyl* dimethyl di	Alkyl* dimethyl benzyl	NA 1207	69194	NA 169	Algaecide	
*(90%Cl4, 5%Cl2; 5%Cl6)   Alkyl* dimethyl benzyl ammonium chloride *(95% Cl5, 5% Cl8)   Alkyl* dimethyl benzyl ammonium chloride *(95% Cl6, 5% Cl8)   Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)   Alkyl* dimethyl benzyl ammonium chloride *(C8-18)   NA 1209   ##### NA 169   Algaecide, Microbiocide   Algaecide, Microbiocide   Algaecide, Microbiocide   Ammonium Compound   Alkyl* dimethyl benzyl ammonium chloride *(C8-18)   NA 1209   ##### NA 169   Algaecide, Microbiocide   Ammonium Compound   Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium ion alkyl** amine   *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium chloride *(C8-18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium chloride *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium chloride *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C14, C16)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C13, C16, C18)   Alkyl* dimethyl benzyl ammonium bromide *(C12, C1						
Alkyl* dimethyl benzyl ammonium chloride *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl ammonium chloride *(C8-18)  Alkyl* dimethyl ammonium chloride *(C12, C14, C16) *(C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(C12, C14, C16) *(C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(C12, C14, C16) *(C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(C12, C14, C16) *(C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(C12, C14, C16) *(C12, C14	*(90%C14, 5%C12, 5%C16)				1/210100100100	
ammonium chloride  *(93%C14, 4%C12, 3%C16)  Alkyl* dimethyl benzyl ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) Alkyl* dimethyl dimethyl dimethyl dimethyl benzyl ammonium chloride *(S0%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium chloride *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(S5% C18)  Alkyl* dimethyl ethyl ammonium bromide *(Mixed)		68424-85-1	69158	NA 164	Algaecide	
*(93%C14, 4%C12, 3%C16)   Alkyl* dimethyl benzyl ammonium chloride *(95% C18)   NA 1208   ##### NA 169   Algaecide, Microbiocide   Quaternary Ammonium chloride *(as in fatty acids of coconut oil)   NA 1209   ##### NA 169   Algaecide, Microbiocide   Algaecide, Microbiocide   Quaternary Ammonium chloride *(C8-18)   NA 1209   ##### NA 169   Algaecide, Microbiocide   Algaecide, Microbiocide   Quaternary Ammonium chloride *(C8-18)   NA 1209   ##### NA 169   Algaecide, Microbiocide   Algaecide, Microbiocide   Quaternary Ammonium chloride *(C8-18)   NA 1209   ##### NA 114   Algaecide, Microbiocide   Quaternary Ammonium chloride *(C12, C14, C16) **(C10, C12, C14,	ammonium chloride					
Alkyl* dimethyl benzyl ammonium chloride *(95% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** ammonium chloride *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethyl benzyl ammonium chloride *(S0%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	*(93%C14, 4%C12, 3%C16)		ļ		1/1101001001dc	
ammonium chloride *(95% C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  NA 1209 ##### NA 169 Algaecide, Microbiocide Compound Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethyl dimethyl enzyl ammonium chloride *(S5% C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed S1788-99-6 ###### NA 113 Algaecide, Microbiocide Compound Co	Alkyl* dimethyl benzyl	68607-20-5	#####	NA 114	Algaecide	
C16, 5% C18)  Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethyl benzyl ammonium chloride *(S0%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium chloride *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	ammonium chloride *(95%				Microbiocide	
Alkyl* dimethyl benzyl ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  NA 1209 ##### NA 169 Algaecide, Microbiocide  Alkyl* dimethyl benzyl ammonium ion alkyl* amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethyl dimethyl benzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	C16, 5% C18)	-			1.11010010CldC	
ammonium chloride *(as in fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  NA 1209 ##### NA 169 Algaecide, Microbiocide  Alkyl* dimethyl benzyl ammonium ion alkyl* amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	Alkyl* dimethyl benzyl	NA 1208	#####	NA 160	Almacida	
fatty acids of coconut oil)  Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethylbenzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)				111110	Microbiocide	
Alkyl* dimethyl benzyl ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl dimethyl dimethyl enzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	fatty acids of coconut oil)			ı	Microbiocide	
ammonium chloride *(C8-18)  Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl dimethyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)	Alkyl* dimethyl benzyl	NA 1209	#####	NA 160	Algaecide	
Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16	ammonium chloride *(C8-18)		"""""	1421 105		
Alkyl* dimethyl benzyl ammonium ion alkyl** amine *(C12, C14, C16) **(C10, C12, C14, C16, C14, C16, C14, C16, C16, C16, C16, C16, C16, C16, C16			ł		Micropiocide	
ammonium ion alkyl** amine  *(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethylbenzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Algaecide, Microbiocide  Ammonium Compound  Algaecide, Microbiocide  Algaecide, Microbiocide  Algaecide, Microbiocide  Compound  Ammonium Compound  Algaecide, Microbiocide  Ammonium Compound  Ammonium Compound  Ammonium Compound  Ammonium Compound  Algaecide, Microbiocide  Ammonium Compound  Algaecide, Microbiocide  Ammonium Compound  Ammonium Compound	Alkyl* dimethyl benzyl	61790-41-8	#####	NA 114	Algaerida	
*(C12, C14, C16) **(C10, C12, C14, C16)  Alkyl* dimethyl dimethyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  *(C12, C14, C16) **(C10, C10, C10, C10, C10, C10, C10, C10,	ammonium ion alkvl** amine	31,70-41-0	www.	177 114	Microbioside	
C12, C14, C16)  Alkyl* dimethyl dimethylbenzyl ammonium chloride *(50%C12, 30%C14,	*(C12, C14, C16) **(C10			į	MICIODIOCIDE	
Alkyl* dimethyl dimethyl dimethyl penzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)			]	[		Compound
dimethylbenzyl ammonium chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Algaecide, Microbiocide Compound  Algaecide, Quaternary Ammonium Compound  Algaecide, Quaternary Ammonium Compound		8045-22-5	60100	NA 624	Algenside	
chloride *(50%C12, 30%C14, 17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  Algaecide, Microbiocide Compound Ammonium Compound Ammonium Ammonium Ammonium Ammonium Ammonium Compound Ammonium Compound Ammonium Compound Ammonium Compound Ammonium Compound Ammonium Compound Ammonium Compound	dimethylbenzyl ammonium	0073-22-3	02103	17A 024		
17%C16, 3%C18)  Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  134595-54-3 69186  NA 649 Algaecide, Microbiocide Compound Compound NA 113 Algaecide, Microbiocide Ammonium Compound Ammonium Compound Ammonium	chloride *(50%C12 30%C14			l	TATTCTODIOCIDE	
Alkyl* dimethyl ethyl ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed Alkyl* dimethyl ethyl ammonium bromide *(mixed Alkyl* dimethyl ethyl ammonium bromide *(mixed Alkyl* dimethyl ethyl ammonium bromide *(mixed Alkyl* dimethyl ethyl ammonium bromide *(mixed Alkyl* dimethyl e		į		ľ		Compound
ammonium bromide *(85% C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed Ammonium Compound Microbiocide Ammonium Microbiocide Ammonium Ammonium Ammonium Ammonium Ammonium Ammonium Ammonium Ammonium Ammonium Microbiocide Ammonium Ammonium Microbiocide Ammonium Ammonium Microbiocide Ammonium Ammonium Microbiocide Ammonium Ammonium Microbiocide Ammonium Microbiocide Ammonium Microbiocide Ammonium Microbiocide Ammonium Microbiocide Ammonium Microbiocide Microbiocide Ammonium Microbiocide Ammonium Microbiocide Mi	Alkyl* dimethyl ethyl	13/1505 5/ 2	60196	NIA 640	A1 : 1	
C16, 15% C18)  Alkyl* dimethyl ethyl ammonium bromide *(mixed)  C16, 15% C18)  Compound  NA 113 Algaecide, Quaternary  Microbiocide Ammonium		134373-34-3	02180	INA 049		
Alkyl* dimethyl ethyl 61788-99-6 ##### NA 113 Algaecide, Quaternary ammonium bromide *(mixed Microbiocide Ammonium					Microbiocide	
ammonium bromide *(mixed   Microbiocide   Ammonium		61700 00 6		274 712		
		01/00-99-0	<del>11 11 11 11 1</del>	NA 113	Algaecide,	
l ollari and alleanni amanna a m t	alkyl and alkenyl groups as in				Microbiocide	
fatty acids of soybean oil)  Compound		1				Compound
amely notes of solyocati Oil)	and acids of soyucan on)				L	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
A11 14 1		<u>Code</u>	Code		
Alkyl* dimethyl ethylbenzyl	68956-79-6	69167	NA 640	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 30%C16, 5%C12,					Compound
5%C18)					
Alkyl* dimethyl ethylbenzyl	37335-68-5	69135	NA 633	Algaecide,	Quaternary
ammonium				Microbiocide	Ammonium
cyclohexylsulfamate					Compound
*(50%C12, 30%C14, 17%C16,					
3%C18)					
Alkyl* trimethyl ammonium	1119-97-7	69153	NA 637	Microbiocide	Quaternary
bromide *(95%C14, 5%C16)					Ammonium
A 111# 4	110.00.5				Compound
Alkyl* trimethyl ammonium	112-00-5	#######	NA 113	Microbiocide	Quaternary
chloride *(70% C12, 30% C14)					Ammonium
A 111* 4:111	60000 60 4				Compound
Alkyl* trimethyl ammonium chloride *(70%C18, 27%C16,	68002-63-1	69197	NA 654	Microbiocide	Quaternary
3%C14)					Ammonium
Alkyl* trimethyl ammonium	69000 60 0		374 25 2		Compound
chloride *(90%C18, 10%C16)	68002-62-0	69151	NA 636	Microbiocide	Quaternary
(30%C18, 10%C18)					Ammonium
Alkyl* trimethyl ammonium	61700 41 0	00000	371 445		Compound
chloride *(alkyl as in fatty	61790-41-8	#####	NA 115	Microbiocide	Quaternary
acids of soybean oil)					Ammonium
Alkyl* trimethyl ammonium	(1700 10 0	20220	274 400		Compound
chloride *(as in fatty acids of	61789-18-2	#####	NA 109	Microbiocide	Quaternary
coconut oil)					Ammonium
Alkyl* trimethyl ammonium	(0000 (1.0	60100	374 604		Compound
chloride *derived from	68002-61-9	69139	NA 634	Microbiocide	Quaternary
cottonseed oil					Ammonium
Alkyl*-5-hydroxy-4-oxo-	NA 1189	#####	NIA 167	\ \frac{1}{2} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Compound
2(4H)-pyranylmethyl dimethyl	NA 1109	<del>"""""</del>	NA 167	Microbiocide	Quaternary
ammonium chloride *(49%					Ammonium
C12, 17% C14, 17% C10, 10%					Compound
C18, 9% C16, 8% C8)					
Alkyl*-N,N-bis(2-	70750-47-9	#####	NA 114	N/A	
hydroxyethyl)methyl	70730-47-2	""""	NA 114	IN/A	Quaternary
ammonium chloride *(53%					Ammonium
C12, 19% C14, 8.5% C16,					Compound
7.0% C8, 6.5% C10, 6.0%					
C18)	·				
Alkyl*-N-ethyl morpholinium	NA 1213	69147	NA 170	Fungicide,	Quaternary
ethyl sulfate *(66%C18,				Algaecide	Ammonium
25%C16, 8%C18', 1%C14)		1			Compound
Alkyldimethylbenzyl	NA 1368	NA 194	NA 193	Microbiocide,	Quaternary
ammonium chloride		·		Herbicide	Ammonium
		]			Compound
Alkyldimethylethylbenzylamm	NA 1369	NA 194	NA 193	Microbiocide,	Quaternary
onium chloride	į	1		Herbicide	Ammonium
		İ			Compound
Alkyltrimethyl ammonium	NA 1370	NA 194	NA 193	Microbiocide,	Quaternary
chloride		1		Fungicide	Ammonium
					Compound
Alkyltrimethylbenzyl	NA 1371	NA 194	NA 193	Herbicide	Quaternary
ammonium chloride		į			Ammonium
			ľ		Compound
Benzyl dimethyl octadecyl	122-19-0	#####	1186	Microbiocide	Quaternary
					Z-acommy

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u>Grioriment Tramio</u>	CAB IVAIIBLE	Code	Code	Ose I ype	Chemical Class
ammonium chloride					Ammonium
		}			Compound
Benzyl((dodecylcarbamoyl)met	100-95-8	69159	NA 638	Microbiocide	Quaternary
hyl)dimethyl ammonium	100,50	0,13,	1111 050	Microbiocide	Ammonium
chloride					Compound
Benzyl-C12-14-alkyldimethyl	134058-54-1	69192	5069	Microbiocide	Quaternary
quaternary ammonium	20.0000.1	0,1,52	3003	14101001001dC	Ammonium
compounds		}			Compound
Cetyl dimethyl ethyl	124-03-8	69156	122	Microbiocide	Quaternary
ammonium bromide	12.050	0,130	122	Whichoprocide	Ammonium
					Compound
Cetyl trimethyl ammonium	57-09-0	69117	116	Microbiocide,	Quaternary
bromide	37-05-0	05117	110	Herbicide	Ammonium
				Tierorcide	
Cetyl trimethyl ammonium	112-02-7	69133	NA 632	Microbiocide	Compound
chloride	112-02-7	05155	14A 052	Microbiocide	Quaternary Ammonium
		•			
Cetylcide (95%C16, 3%C14,	124-03-8	69156	2061	Microbiocide	Compound
2%C12)	124-03-8	09130	2001	Microbiocide	Quaternary Ammonium
270012)					
Chlormequat	7003-89-6	NA 216	NA 215	Plant Growth	Compound
Cinormequat	7003-89-0	NA 210	NA 213		Quaternary
				Regulator	Ammonium
Chlormequat chloride	999-81-5	18101	1510	D1 (C) 11	Compound
Cmorniequat emorite	999-61-3	18101	1512	Plant Growth	Quaternary
				Regulator	Ammonium
Di(alkyl* oxypropyl)dimethyl	NA 1261	69121	214 152		Compound
ammonium chloride *(60%C8,	INA 1201	09121	NA 173	Algaecide,	Quaternary
40%C10)				Microbiocide	Ammonium
Dialkyl (85%C18, 15%C16)	69514.05.4	NIA 266	107	3.61	Compound
dimethyl ammonium chloride	68514-95-4	NA 355	197	Microbiocide,	Quaternary
difficulty antifformum chloride		İ		Adjuvant	Ammonium
Dialkyl dimethyl ammonium	NTA 000	274 150	5101	3.0	Compound
polynaphthyl amine	NA 900	NA 172	5181	Microbiocide	Quaternary
potynaphtnyt attine					Ammonium
Dialkyl* dimethyl ammonium	72200 64 0	60126	0000	3.5	Compound
chloride *(47%C12, 18%C14,	73398-64-8	69136	2230	Microbiocide	Quaternary
10%C18, 9%C10, 8%C16,					Ammonium
004.00					Compound
8%C8)   Dialkyl* dimethyl ammonium	73398-64-8	31111111	DTA 114	36: 1: :1	
chloride *(48% C12, 17% C14,	/3390-04-0	<del>        </del>	NA 114	Microbiocide	Quaternary
10% C18, 9% C16, 8% C8, 7%			1		Ammonium
C10, 1% C6)				Ì	Compound
Dialkyl* dimethyl ammonium	68153-33-3	#####	NA 113	36:1::1	
chloride *(50%C12, 20%C14,	06133-33-3	<del>1111111111</del>	NA 113	Microbiocide	Quaternary
15%C10, 10%C16, 5%C18)			]		Ammonium
Dialkyl* dimethyl ammonium	68910-56-5	60177	274 645	36	Compound
chloride *(50%C12, 30%C14,	C-0C-01600	69177	NA 645	Microbiocide	Quaternary
20%C16)			1		Ammonium
Dialkyl* dimethyl ammonium	68002-59-5	60100	774 606	36. 1	Compound
	08002-39-3	69120	NA 626	Microbiocide	Quaternary
chloride *(70%C18, 26%C16,			ľ		Ammonium
4%C14)	72040 77 0	(0110	274 655		Compound
Dialkyl* methyl benzyl	73049-75-9	69119	NA 625	Algaecide,	Quaternary
ammonium chloride *(60%				Microbiocide	Ammonium
C14, 30% C16, 5% C18, 5%					Compound
C12) Diallyl dimethyl ammonium	26060 70 2	12 32 22 22 23	5000		
Dianyi dinieniyi ammonium	26062-79-3	#####	5092	Adjuvant	Quaternary

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u> </u>	Code	Code	Osc Type	Chemical Class
chloride polymers					Ammonium
					Compound
Dibenzyldimethylammonium	NA 1440	NA 213	NA 213	Microbiocide	Quaternary
chloride			ļ		Ammonium
					Compound
Dicoco dimonium chloride	61789-77-3	69138	3140	Adjuvant	Quaternary
					Ammonium
					Compound
Didecyl dimethyl ammonium	148788-55-0	69208	NA 658	Microbiocide	Quaternary
carbonate and didecyl dimethyl					Ammonium
ammonium bicarbonate					Compound
Didecyl dimethyl ammonium	148812-65-1	69208	NA 659	Microbiocide	Quaternary
carbonate and didecyl dimethyl		ŀ	1		Ammonium
ammonium bicarbonate					Compound
Didecyl dimethyl ammonium	7173-51-5	69149	1682	Microbiocide,	Quaternary
chloride		[		Fungicide	Ammonium
	7.11		L		Compound
Didecyl methyl benzyl	32426-10-1	69170	NA 642	Microbiocide	Quaternary
ammonium chloride		<u> </u>			Ammonium
					Compound
Dihydrogenated tallow	61789-81-9	69150	3153	Adjuvant	Quaternary
dimethyl ammonium					Ammonium
methosulfate					Compound
Dilauryl dimethyl ammonium	3282-73-3	#####	NA 112	Microbiocide	Quaternary
bromide					Ammonium
					Compound
Dimethyl dicoco ammonium	NA 166	NA 317	1945	Microbiocide	Quaternary
chloride					Ammonium
					Compound
Dimethyl dioctadecyl	NA 627	NA 114	3163	Adjuvant	Quaternary
ammonium bentonite					Ammonium
Dist. 1.11 (1.1					Compound
Dioctyl dimethyl ammonium	5538-94-3	69166	1710	Microbiocide,	Quaternary
chloride				Algaecide,	Ammonium
Distant dissertion 11 11	107.64.0	***************************************	2.5	Fungicide	Compound
Distearyl dimonium chloride	107-64-2	<del>#####</del>	3176	Adjuvant	Quaternary
		•			Ammonium
Dodoord di/2 by draw at 1	10270 00 0	60101	371 645	3.51	Compound
Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride	19379-90-9	69181	NA 647	Microbiocide	Quaternary
benzyi ammomuni emoride					Ammonium
Dodecyl dimethyl 2,4,5-	53404-46-9	2121211	274 112	36. 1	Compound
trimethylbenzyl ammonium	33404-40-9	#####	NA 113	Microbiocide	Quaternary
chloride					Ammonium
Dodecyl dimethyl ammonium	NA 157	NA 294	1009	Minushinati	Compound
chloride	NA 157	NA 294	1008	Microbiocide	Quaternary
·		-			Ammonium
Dodecyl dimethyl benzyl	1964001	69123	NA 627	Enmailed a	Compound
ammonium bromide	1704001	U7123	NA 02/	Fungicide, Microbiocide	Quaternary
				MICLODIOCIDE	Ammonium
Dodecyl dimethyl benzyl	139-07-1	69124	1167	Migrahia	Compound
ammonium chloride	139-07-1	07124	110/	Microbiocide,	Quaternary
				Herbicide	Ammonium
Dodecyl dimethyl benzyl	22232-26-4	69128	NA 629	Migrobiasida	Compound
ammonium	~~~~~~~~	03120	14W 07A	Microbiocide	Quaternary
cyclopentanecarboxylate				ļ	Ammonium
Dodecyl dimethyl benzyl	NA 1027	69127	1446	Fungicide,	Compound
	1111141	03121	1440	rangicide,	Quaternary

Chemical Name	CAS Number	TIC ENA DO	CA C	TT 77	
Chemical Ivame	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		
ammonium naphthenate				Insecticide,	Ammonium
				Fungicide	Compound
Dodecyl dimethyl	53466-90-3	#####	NA 113	Microbiocide	Quaternary
trichlorobenzyl ammonium		<u> </u>			Ammonium
<u>chloride</u>					Compound
Dodecylbenzyl alkyl (70%C12,	87175-02-8	#####	1038	Algaecide,	Quaternary
30%C14) dimethyl ammonium				Microbiocide	Ammonium
chloride				11110100100100	Compound
Dodecylbenzyl octadecyl	29932-85-2	#####	NA 113	Microbiocide	
dimethyl ammonium chloride		"""""	1121 113	MICIONIOCIGE	Quaternary Ammonium
,					
Dodecylbenzyl trimethyl	12379-51-0	69126	NA 628	N/A	Compound
ammonium 2-ethylhexanoate	12379-31-0	09120	IVA 028	N/A	Quaternary
					Ammonium
Dodecylbenzyl trimethyl	1220 05 4	6010.5			Compound
ammonium chloride	1330-85-4	69125	918	Adjuvant,	Quaternary
animomum entoride				Microbiocide	Ammonium
					Compound
Ecolyst	NA 1174	69089	NA 165	Plant Growth	Quaternary
::				Regulator	Ammonium
•					Compound
Ethyl dimethyl stearyl	111-98-8	#####	NA 115	Microbiocide	Quaternary
ammonium bromide					Ammonium
					Compound
Mepiquat	15302-91-7	NA 203	NA 202	Plant Growth	Quaternary
				Regulator	Ammonium
				1108414101	Compound
Mepiquat chloride	24307-26-4	#####	2075	Plant Growth	Quaternary
			2075	Regulator	Ammonium
İ				Regulator	
Methyl dodecyl benzyl	1399-80-0	69129	895	Microbiocide	Compound
trimethyl ammonium chloride	1377-00-0	09129	693	Microbiocide	Quaternary
					Ammonium
Methyl dodecyl benzyl	NA 619	NA 112	0.670	3.51 3.1.1.1	Compound
trimethyl ammonium chloride	NA 019	NA 112	2678	Microbiocide	Quaternary
80% and methyl					Ammonium
					Compound
Methyl dodecyl trimethyl ammonium chloride	NA 44	NA 83	2679	Microbiocide	Quaternary
ammonium chioride					Ammonium
					Compound
Methyl dodecyl xylene bis	NA 45	NA 84	896	Microbiocide	Quaternary
(trimethyl ammonium chloride)					Ammonium
					Compound
Methyl trioctyl ammonium	5137-55-3	NA 72	3291	Adjuvant	Quaternary
chloride					Ammonium
		1			Compound
Morpholine dodecyl benzene	12068-08-5	#####	3294	Microbiocide,	Quaternary
sulfonate				Adjuvant,	Ammonium
				Fungicide,	Compound
		1	1	Insecticide	Comboning
N-(3,4-dichlorobenzyl)-N-	102-30-7	#####	1129	Microbiocide	Overtee
dodecyl-N,N-dimethyl	102-30-7	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	1129	MICIODIOCIDE	Quaternary
ammonium chloride			1	I	Ammonium
N-alkyl (92%C18, 8%C16)-N-	61701 24 2	60112		<del></del>	Compound
ethyl morpholinium ethyl	61791-34-2	69113	986	Fungicide,	Quaternary
	İ	l	[	Microbiocide	Ammonium
sulfate					Compound
N-alkyl (soza)-N-methyl	NA 281	NA 550	3020	Fungicide,	Quaternary
morpholinium sulfate	1		Ī	Microbiocide	Ammonium
					Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	Osc Type	Chemical Class
N-cetyl-N-ethyl morpholinium	78-21-7	69113	1792	Fungicide,	Quaternary
ethyl sulfate				Microbiocide	Ammonium
					Compound
N-Cetyl-N-ethyl morpholinium	78-21-7	#####	NA 174	Fungicide	Quaternary
ethyl sulfate				2 440510100	Ammonium
1					Compound
N-Cetyl-N-ethylmorpholinium	78-21-7	69187	NA 172	Fungicide	Quaternary
ethyl sulfate	, , , , , ,			1 dingrordo	Ammonium
					Compound
N-Dialkyl (60%C14, 30%C16,	68424-87-3	NA 356	2070	Microbiocide	Quaternary
5%C12, 5%C18) methyl				1.210100100100	Ammonium
benzyl ammonium chloride					Compound
N-isononyl-N,N-dimethyl	138698-36-9	69207	5070	Microbiocide	Quaternary
decanaminium chloride					Ammonium
<u> </u>					Compound
Octyl decyl dimethyl	32426-11-2	69165	1709	Microbiocide,	Quaternary
ammonium chloride			_	Fungicide	Ammonium
					Compound
Octyl dodecyl dimethyl	10361-16-7	69190	1947	Microbiocide	Quaternary
ammonium chloride					Ammonium
					Compound
Oleyl dimethyl ethyl	14351-44-1	69132	NA 631	Microbiocide	Quaternary
ammonium bromide					Ammonium
					Compound
Oxydiethylene bis (alkyl	68607-28-3	69173	1362	Microbiocide	Quaternary
dimethyl ammonium chloride),					Ammonium
alkyl derived from coconut oil					Compound
fatty acids					
Polybromide form of	NA 1164	8711	NA 163	Microbiocide	Quaternary
trimethylbenzyl ammonium					Ammonium
resin					Compound
Polyethoxypolypropoxypolyeth	NA 1287	46913	NA 175	Microbiocide	Iodine Compound,
oxyethanol-n-alkyl (54% C12,					Quaternary
18% C14, 9% C16, 9% C18,					Ammonium
5% C10, 5% C8) di(beta-					Compound
hydroxyethyl) benzyl am					
Polymeric quaternary	NA 1463	NA 217	NA 216	Microbiocide,	Quaternary
ammonium chloride				Adjuvant	Ammonium
					Compound
Polyquaternium-6	28301-34-0	NA 767	2818	Adjuvant	Quaternary
				Ţ	Ammonium
					Compound
Polytrimethyl vinyl benzyl	9017-80-5	NA 119	3769	Adjuvant	Quaternary
ammonium chloride				-	Ammonium
					Compound
Quaternium-18 bentonite	68953-58-2	#####	2996	Adjuvant	Quaternary
				-	Ammonium
					Compound
Soya ethyl morpholinium	61791-34-2	69113	3453	Fungicide,	Quaternary
ethosulfate				Microbiocide	Ammonium
					Compound
Tetradecyl dimethyl benzyl	139-08-2	69107	1166	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
				-	Compound
Tetraethyl ammonium	77-98-5	4215	NA 76	N/A	Quaternary
hydroxide			-		Ammonium
<u> </u>		l			Compound
		<del></del>			

CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
			OSC XYPO	Chemical Class
155-04-4	51705	1449	Fungicide.	Mercaptobenzothiazo
			Microbiocide	le, Inorganic-Zinc
53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
			Fungicide	le, Inorganic-Zinc
				Inorganic-Copper
NA 1188	46606	NA 167	Microbiocide	Inorganic-Nickel,
				Imidazoline ·
7420 00 5	111	1040	27/4	
				Inorganic
				Inorganic
				Inorganic
				Inorganic
				Inorganic
		<del> </del>		Inorganic
				Inorganic
		<del></del>		Inorganic
<del></del>		<del></del>		Inorganic
20055-75-0	00501	704		Inorganic
10043-67-1	#####	3031		Inorganic
			Insecticide	Zito i guinto
1302-76-7	NA 131	2379	Adjuvant	Inorganic
637-12-7	NA 541	3032	N/A	Inorganic
10043-01-3	13906	1415	Plant Growth	Inorganic
			Regulator,	
5664.44.5				
7664-41-7	5302	22		Inorganic
7784-26-1	NIA 532	2027		Т
				Inorganic
				Inorganic Inorganic-arsenic,
,,,,,,,	15001	2500		Heavy metal
			,	iicavy inciai
1066-33-7	NA 534	3038		Inorganic
7803-63-6	NA 141	3039		Inorganic
12124-97-9	352	3040	N/A	Inorganic
1111-89-7	NA 141	3041	N/A	Inorganic
506-87-6	73501	3042	Fungicide,	Inorganic
			Herbicide,	Ŭ
10105 00 0	hann	20.40		
				Inorganic
2149/01	68305	NA 607		Inorganic-
			rieservative	Chromium(VI),
10138-04-2	NA 537	3047	Herbicide	Heavy metal Inorganic
				Inorganic
				Inorganic
	,	1111 027	MIGCHORD	morganic
1336-21-6	5301	2381	Fungicide, pH	Inorganic
			Adjustment,	
		i e	Herbicide,	
	53404-93-6  142-71-2 NA 1188  7429-90-5 NA 971 NA 1043 6028-57-5 7446-70-0 142-03-0 21645-51-2 NA 1018 1344-28-1 20859-73-8  10043-67-1 1302-76-7 637-12-7 10043-01-3  7664-41-7  7784-26-1 NA 1216 7784-44-3  1066-33-7 7803-63-6 12124-97-9 1111-89-7 506-87-6  12125-02-9 2149701  10138-04-2 16919-19-0 62449-69-8	Code           155-04-4         51705           53404-93-6         51709           142-71-2         NA 697           NA 1188         46606           7429-90-5         111           NA 971         NA 548           NA 1043         NA 140           6028-57-5         NA 549           7446-70-0         13901           142-03-0         NA 113           21645-51-2         NA 129           NA 1018         NA 107           1344-28-1         NA 540           20859-73-8         66501           10043-67-1         #####           1302-76-7         NA 131           637-12-7         NA 541           10043-01-3         13906           7664-41-7         5302           7784-26-1         NA 533           NA 1216         98501           7784-44-3         13601           1066-33-7         NA 534           7803-63-6         NA 141           12124-97-9         352           1111-89-7         NA 141           506-87-6         73501           12125-02-9         ######           2149701         68305 <td>Code         Code           155-04-4         51705         1449           53404-93-6         51709         NA 427           142-71-2         NA 697         3013           NA 1188         46606         NA 167           7429-90-5         111         1042           NA 971         NA 548         3025           NA 1043         NA 140         3026           6028-57-5         NA 549         3027           7446-70-0         13901         3028           142-03-0         NA 113         3029           21645-51-2         NA 129         2145           NA 1018         NA 107         2378           1344-28-1         NA 540         3030           20859-73-8         66501         484           10043-67-1         #####         3031           1302-76-7         NA 131         2379           637-12-7         NA 541         3032           10043-01-3         13906         1415           7664-41-7         5302         22           7784-26-1         NA 533         3037           NA 1216         98501         NA 170           7784-44-3         13601         <t< td=""><td>  Code</td></t<></td>	Code         Code           155-04-4         51705         1449           53404-93-6         51709         NA 427           142-71-2         NA 697         3013           NA 1188         46606         NA 167           7429-90-5         111         1042           NA 971         NA 548         3025           NA 1043         NA 140         3026           6028-57-5         NA 549         3027           7446-70-0         13901         3028           142-03-0         NA 113         3029           21645-51-2         NA 129         2145           NA 1018         NA 107         2378           1344-28-1         NA 540         3030           20859-73-8         66501         484           10043-67-1         #####         3031           1302-76-7         NA 131         2379           637-12-7         NA 541         3032           10043-01-3         13906         1415           7664-41-7         5302         22           7784-26-1         NA 533         3037           NA 1216         98501         NA 170           7784-44-3         13601 <t< td=""><td>  Code</td></t<>	Code

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Oliver
	OT IS TIGHTOO!	Code	Code	Ose Type	Chemical Class
			0000	Microbiocide	
Ammonium nitrate	6484-52-2	76101	3052	Rodenticide,	Inorganic
	0101322	'0101	3032	Microbiocide	morganic
Ammonium nitrite	13446-48-5	76201	NA 700	Rodenticide,	Inorganic
	10 110 10 0		1111 / 00	Microbiocide	Inorganic
Ammonium oxalate	1113-38-8	9603	891	Microbiocide	Inorganic
Ammonium polysulfides	9080-17-5	76701	NA 707	Insecticide,	Inorganic
ļ -		'0''	1111707	Fungicide	morganic
Ammonium sulfate	7783-20-2	5601	1363	Herbicide, pH	Inorganic
			1555	Adjustment	morganic
Ammonium thiocyanate	1762-95-4	68200	25	Synergist	Inorganic
Ammonium thiosulfate	7783-18-8	80103	892	Insecticide,	Inorganic
	// 52 15 0	00105	0,2	Fungicide,	morganic
			}	Herbicide	
Anhydrous zirconium (IV)	1314-23-4	79090	2204	N/A	Inorganic
oxide				14/21	Morganic
Anilinocadmium dilactate	19651-91-3	64601	NA 548	N/A	Inorganic-Cadmium,
				1471	Heavy metal
Arsenic	7440-38-2	NA 121	710	Herbicide,	Inorganic-arsenic,
		ĺ	,	Insecticide,	Heavy metal
				Rodenticide	1104 y Includ
Arsenic acid	7778-39-4	6801	40	Herbicide,	Inorganic-arsenic,
· ·	j			Insecticide,	Heavy metal
				Rodenticide	and y mount
Arsenic disulfide	56320-22-0	6901	NA 98	Herbicide,	Inorganic-arsenic,
		•		Insecticide,	Heavy metal
· ·				Rodenticide	
Arsenic pentoxide	1303-28-2	6802	631	Fungicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Rodenticide,	
				Herbicide	
Arsenic sulfide	12612-21-4	6901	NA 99	Herbicide,	Inorganic-arsenic,
· ·				Insecticide,	Heavy metal
				Rodenticide	
Arsenic trioxide	1327-53-3	7001	42	Herbicide,	Inorganic-arsenic,
· ·				Insecticide,	Heavy metal
	100000			Rodenticide	
Arsenic trisulfide	1303-33-9	6901	NA 97	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Amonio said susus si sa 1	50000 05 1	200020	771	Rodenticide	
Arsonic acid, ammonium salt	58829-95-1	<del>#####</del>	NA 105	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
			i	Wood	
Asbestos	1222 21 4	00201	2200	Preservative	
Barium carbonate	1332-21-4	99301	2398	Insecticide	Inorganic
Barium chloride	513-77-9	7501	3060	N/A	Inorganic
Barium fluosilicate	10361-37-2	NA 141	3061	N/A	Inorganic
	17125-80-3	75302	NA 688	Insecticide	Inorganic
Barium metaborate	13701-59-2	11101	973	Fungicide	Inorganic
Barium nitrate	10022-31-8	NA 186	NA 185	Repellent	Inorganic
Barium polysulfide	50864-67-0	76704	NA 709	Insecticide,	Inorganic
Davis 10	5505 15 5			Fungicide	
Barium sulfate	7727-43-7	7502	2411	N/A	Inorganic
Basic copper arsenate	16102-92-4	#####	NA 132	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper

Chemical Name   CAS Number   U.S. EPA PC   CA Chem   Code   Cod	Basic lead silicate 5	53466-66-3 1302-78-9	<u>Code</u> 48003	Code		
Bentonite   1302-78-9   NA 496   1399   Adjuvant   Heavy metal   Heavy	Bentonite	1302-78-9		NA 417	N/A	Inorganic Lead
Bentomine				Į.	i	
Blast furnace slag			I NA 496	1399	Adinvant	
Borax		11/12/2/2/2			<del></del>	
Bordeaux mixture	Borax					
Bordeaux mixture	]		11102	"		morganic
Boric acid   10043-35-3   11001   769   Insecticide   Inorganic   Inorganic   Salt(1:2)   Boric oxide   1303-86-2   11002   2090   Insecticide   Inorganic   Inorganic   Boric oxide   Boron   7440-42-8   #####   2426   N/A   Inorganic   Inorganic   Boron   7440-42-8   #####   2426   N/A   Inorganic   Inorganic   Boron   2440-42-8   #####   2426   N/A   Inorganic   Inorganic   Boron   2440-42-8   #####   2426   N/A   Inorganic   Inorganic   Bromine chloride   13863-41-7   20504   2323   Microbiocide   Inorganic   Inorganic   Cadmium   7440-43-9   NA 460   2438   N/A   Heavy metal   Inorganic-Cadmium,   H	Bordeaux mixture	NA 240	NA 478	80		Inorgania Compan
Boric acid(H4B6011), zinc salt(1:2)	Boric acid 1					+
Boric oxide   1303-86-2   11002   2090   Insecticide   Inorganic			<del></del>			<del></del>
Boron   7440-42-8   #####   2426   N/A   Inorganic   Boron sodium oxide   12179-04-3   11110   NA 116   Insecticide   Inorganic   Inorganic   Bromine   7726-95-6   8701   2296   Microbiocide   Inorganic   Inorganic   Cadmium   7440-43-9   NA 460   2438   N/A   Inorganic   Inorganic   Inorganic   Cadmium   7440-43-9   NA 460   2438   N/A   Inorganic   Cadmium   Heavy metal   Inorganic	salt(1:2)			3054	1 ungicide	morganic-zinc
Boron	Boric oxide	1303-86-2	11002	2090	Insecticide	Inorganic
Boron sodium oxide   12179-04-3   11110   NA 116   Insecticide   Inorganic		7440-42-8	#####	2426		
Bromine		2179-04-3	11110	NA 116		
Bromine chloride	(B4Na2O7), pentahydrate					gunto
Bromme chloride			8701	2296	Microbiocide	Inorganic
Cadmium         7440-43-9         NA 460         2438         N/A         Inorganic-Cadmium, Heavy metal           Cadmium carbonate         513-78-0         12901         93         N/A         Inorganic-Cadmium, Heavy metal           Cadmium chloride         10108-64-2         12902         94         N/A         Inorganic-Cadmium, Heavy metal           Cadmium cocoate         72869-63-7         NA 459         3085         N/A         Inorganic-Cadmium, Heavy metal           Cadmium oxide         1306-19-0         #####         NA 130         N/A         Inorganic-Cadmium, Heavy metal           Cadmium perborate         NA 969         NA 461         3086         N/A         Inorganic-Cadmium, Heavy metal           Cadmium sebacate         939499         12903         699         N/A         Inorganic-Cadmium, Heavy metal           Cadmium succinate         141-00-4         12904         92         N/A         Inorganic-Cadmium, Heavy metal           Cadmium yellow pigments         NA 967         NA 448         2439         N/A         Inorganic-Cadmium, Heavy metal           Calciaum arsenate         7778-44-1         13501         96         Herbicide, Insecticide, Rodenticide, Molluscide         Inorganic-arsenic, Heavy metal           Calcium carbide         75-20-7			20504	2323	Microbiocide	
Cadmium carbonate	Cadmium	7440-43-9	NA 460	2438	N/A	
Cadmium chloride						
Cadmium chloride	Cadmium carbonate	513-78-0	12901	93	N/A	
Cadmium cocoate   72869-63-7   NA 459   3085   N/A   Inorganic-Cadmium, Heavy metal						
Cadmium cocoate  72869-63-7  NA 459  3085  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Inorganic  Inorganic-Inorg	Cadmium chloride 1	0108-64-2	12902	94	N/A	Inorganic-Cadmium,
Cadmium oxide 1306-19-0 ##### NA 130 N/A Inorganic-Cadmium, Heavy metal  Cadmium perborate NA 969 NA 461 3086 N/A Inorganic-Cadmium, Heavy metal  Cadmium sebacate 939499 12903 699 N/A Inorganic-Cadmium, Heavy metal  Cadmium succinate 141-00-4 12904 92 N/A Inorganic-Cadmium, Heavy metal  Cadmium sulfate 10124-36-4 12905 NA 123 N/A Inorganic-Cadmium, Heavy metal  Cadmium yellow pigments NA 967 NA 448 2439 N/A Inorganic-Cadmium, Heavy metal  Cadcareous shale NA 230 NA 449 3595 N/A Inorganic-Cadmium, Heavy metal  Calcium arsenate 7778-44-1 13501 96 Herbicide, Rodenticide, Molluscicide  Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic-arsenic, Heavy metal  Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide, Herbicide, Herbicide, Herbicide, Microbiocide, Herbicide, Herbicide, Microbiocide, Herbicide, Herbicide, Microbiocide, Herbicide, Herbicide, Herbicide, Herbicide, Microbiocide, Herbicide, Herbicide, Herbicide, Herbicide, Herbicide, Herbicide, Herbicide, Microbiocide, Herbicide,	Codminus	20000 00 0				Heavy metal
Cadmium perborate  NA 969  NA 461  3086  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Cadmium sebacate  939499  12903  699  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Cadmium sulfate  10124-36-4  12905  NA 123  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic  Calcium arsenate  7778-44-1  13501  96  Herbicide, Insecticide, Rodenticide, Molluscicide  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Calcium carbonate  75-20-7  NA 450  1571  Repellent  Inorganic  Inorganic  Calcium carbonate  A71-34-1  73502  NA 451  2440  PH Adjustment, Fungicide, Microbiocide, Herbicide  Herbicide  PH Adjustment, Fungicide, Microbiocide, Herbicide  Microbiocide, Herbicide  Calcium carbonate  Calcium carbonate  10137-74-3  73302  NA 682  Defoliant, Inorganic	Cadmum cocoate /	2869-63-7	NA 459	3085	N/A	
Cadmium perborate  NA 969  NA 461  3086  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmiu	Cadmium ovide	1206 10 0	111111111	). ).		
Cadmium sebacate 939499 12903 699 N/A Inorganic-Cadmium, Heavy metal Cadmium succinate 141-00-4 12904 92 N/A Inorganic-Cadmium, Heavy metal Cadmium sulfate 10124-36-4 12905 NA 123 N/A Inorganic-Cadmium, Heavy metal Cadmium yellow pigments NA 967 NA 448 2439 N/A Inorganic-Cadmium, Heavy metal Calcareous shale NA 230 NA 449 3595 N/A Inorganic-Cadmium, Heavy metal Calcium arsenate 7778-44-1 13501 96 Herbicide, Inorganic-Cadmium, Heavy metal Calcium carbonate 53404-59-4 13602 NA 129 Herbicide, Inorganic-arsenic, Heavy metal Calcium carbonate 471-34-1 73502 1007 PH Adjustment, Fungicide, Microbiocide,	Caumam Oxide	1300-19-0	<del>1/1///////</del>	NA 130	N/A	
Cadmium sebacate 939499 12903 699 N/A Inorganic-Cadmium, Heavy metal  Cadmium succinate 141-00-4 12904 92 N/A Inorganic-Cadmium, Heavy metal  Cadmium sulfate 10124-36-4 12905 NA 123 N/A Inorganic-Cadmium, Heavy metal  Cadmium yellow pigments NA 967 NA 448 2439 N/A Inorganic-Cadmium, Heavy metal  Calcareous shale NA 230 NA 449 3595 N/A Inorganic  Calcium arsenate 7778-44-1 13501 96 Herbicide, Insecticide, Rodenticide, Molluscicide  Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic  Calcium carbonate 471-34-1 73502 1007 PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium carbonate, treated NA 968 NA 451 2440 PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic	Cadmium perborate	NA 969	NA 461	2006	DT/A	
Cadmium succinate 141-00-4 12904 92 N/A Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic Inorganic-Arsenic, Insecticide, Rodenticide, Molluscicide Inorganic-Arsenic, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic Inorganic-Cadmium, Heavy metal Inorganic	post of the	101700	11/1/401	3000	IN/A.	
Cadmium succinate 141-00-4 12904 92 N/A Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic-Cadmium, Heavy metal Inorganic Calcium arsenate 7778-44-1 13501 96 Herbicide, Insecticide, Rodenticide, Molluscicide Inorganic-arsenic, Heavy metal Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic Inorganic Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide Inorganic Inorganic PH Adjustment, Fungicide, Microbiocide, Herbicide Inorganic Inorganic PH Adjustment, Fungicide, Microbiocide, Herbicide Inorganic Inorganic Fungicide, Microbiocide, Herbicide Inorganic Inorganic PH Adjustment, Fungicide, Microbiocide, Herbicide Inorganic Inorganic Inorganic PH Adjustment, Fungicide, Microbiocide, Herbicide Inorganic Inorg	Cadmium sebacate	939499	12903	600	NI/A	Heavy metal
Cadmium sulfate  141-00-4  12904  92  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic  Inorganic  Inorganic-Cadmium, Heavy metal  Inorganic  Inorganic  Inorganic-Cadmium, Heavy metal  Inorganic  Inorganic  Inorganic  Inorganic  PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium carbonate, treated  NA 968  NA 451  Inorganic			12,05	0,7,7	IVA	
Cadmium sulfate  10124-36-4  12905  NA 123  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Hea	Cadmium succinate	141-00-4	12904	92	· N/A	
Cadmium yellow pigments  NA 967  NA 448  2439  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Calcium arsenate  NA 230  NA 449  3595  N/A  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-Cadmium, Heavy metal  Inorganic-arsenic, Heavy metal  Calcium carbide  75-20-7  NA 450  1571  Repellent  Fungicide, Microbiocide, Herbicide  Calcium carbonate, treated  NA 968  NA 451  2440  PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate  Inorganic	·					
Cadmium yellow pigments  NA 967  NA 448  2439  N/A  Inorganic-Cadmium, Heavy metal  Calcareous shale  NA 230  NA 449  3595  N/A  Calcium arsenate  7778-44-1  13501  Poblic Herbicide, Insecticide, Rodenticide, Molluscicide  Calcium arsenite  53404-59-4  13602  NA 129  Herbicide, Insecticide, Rodenticide, Molluscicide  Calcium carbide  Calcium carbide  75-20-7  NA 450  Torganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic Heavy metal  Inorganic Arsenic, Heavy metal  Calcium carbonate  A71-34-1  Torganic  Calcium carbonate, treated  NA 968  NA 451  A450  Defoliant, Inorganic  Inorganic	Cadmium sulfate 1	0124-36-4	12905	NA 123	N/A	
Calcium arsenate  NA 230  NA 449  3595  N/A  Inorganic  Calcium arsenate  7778-44-1  13501  Perbicide, Insecticide, Rodenticide, Molluscicide  Calcium arsenite  53404-59-4  Calcium carbide  Calcium carbonate  75-20-7  NA 450  Calcium carbonate  1571  NA 450  1571  Repellent  Calcium carbonate  471-34-1  73502  Calcium carbonate, treated  NA 968  NA 451  Calcium chlorate  Calcium chlorate  Calcium chlorate  NA 968  NA 451  Calcium chlorate  10137-74-3  1007  PH Adjustment, Fungicide, Microbiocide, Herbicide  Microbiocide, Herbicide  Calcium chlorate  Calcium chlorate  10137-74-3  1017  NA 450  1571  Repellent  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic	C-1					
Calcium arsenate  NA 230  NA 449  3595  N/A  Inorganic  Inorganic-arsenic, Heavy metal  Calcium arsenite  53404-59-4  Calcium carbide  Calcium carbonate  Total arsenite  Tota	Cadmium yellow pigments	NA 967	NA 448	2439	N/A	
Calcium arsenate  Calcium arsenate  Calcium arsenate  Calcium arsenate  Calcium arsenate  Calcium arsenate  Calcium arsenate  Calcium carbide  Calcium carbonate  NA 968  NA 451  Calcium carbonate  NA 968  NA 451  Calc	Colography shale	774 000		·		Heavy metal
Calcium arsenite  Calcium arsenite  53404-59-4  Calcium carbide  Calcium carbonate  Calcium carbonate, treated  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  Calcium carbonate, treated  NA 968  NA 451  Calcium carbonate,					N/A	Inorganic
Calcium arsenite  Calcium arsenite  Calcium carbide  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  NA 968  NA 451  Calcium carbonate, treated  NA 968  NA 451  Calcium carbon	Calcium arsenate /	7/78-44-1	13501	96		
Calcium arsenite  Calcium arsenite  Calcium carbide  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate, treated  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium carbonate  Calcium chlorate  Calc		į				Heavy metal
Calcium arsenite  53404-59-4  13602  NA 129  Herbicide, Insecticide, Rodenticide  Calcium carbide  75-20-7  NA 450  1571  Repellent  Calcium carbonate  471-34-1  73502  1007  PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium carbonate, treated  NA 968  NA 451  2440  PH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate  10137-74-3  73302  NA 682  Defoliant, Inorganic						
Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Herbicide Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic	Calcium arsenite 5	3404-59-4	13602	NA 120		
Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Historiocide, Microbiocide, Herbicide Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic		10.00	15002	1VA 123		
Calcium carbide 75-20-7 NA 450 1571 Repellent Inorganic Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Historiocide, Microbiocide, Herbicide Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic						neavy metai
Calcium carbonate 471-34-1 73502 1007 pH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic		75-20-7	NA 450	1571		Inorgania
Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic						
Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Microbiocide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic						morganic
Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic			ŀ			
Calcium carbonate, treated NA 968 NA 451 2440 pH Adjustment, Fungicide, Microbiocide, Herbicide  Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic						
Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic	Calcium carbonate, treated	NA 968	NA 451	2440		Inorganic
Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic			ļ		Fungicide,	
Calcium chlorate 10137-74-3 73302 NA 682 Defoliant, Inorganic	1					
1002 Deformant, Inorganic	Coloium allama	127 51 5				
	Calcium chiorate 10	)137-74-3	73302	NA 682		Inorganic
					Herbicide,	
Microbiocide			_ <del></del>		Microbiocide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		Sales Cidob
Calcium chloride	10043-52-4	75605	920	Fungicide,	Inorganic
				Herbicide,	
			ļ	Insecticide,	
			ļ	Microbiocide,	
•			i	Molluscicide,	
		]		Dessicant, Plant	
				Growth	
<del></del>		. <u>.</u> .		Regulator	
Calcium cyanide	592-01-8	74001	176	Rodenticide	Inorganic
Calcium hydroxide	1305-62-0	75601	99	pH Adjustment,	Inorganic
				Fungicide,	_
				Microbiocide,	
				Herbicide	
Calcium hypochlorite	7778-54-3	14701	326	Algaecide,	Inorganic
	1			Water	J
				Treatment	
Calcium nitrite	13780-06-8	76202	NA 701	Rodenticide,	Inorganic
				Microbiocide	Ū
Calcium phosphate	10103-46-5	NA 195	NA 195	Rodenticide	Inorganic
Calcium phosphate, tribasic	7758-87-4	76401	1607	Rodenticide,	Inorganic
				Fungicide,	
•		`		Herbicide.	
				Microbiocide	
Calcium silicate	10101-39-0	72607	1908	Insecticide,	Inorganic
		]		Adjuvant,	
		ŀ		Fungicide,	
				Microbiocide	
Calcium sulfate	7778-18-9	5602	2442	Insecticide,	Inorganic
				Herbicide	
Calcium sulfate dihydrate	10101-41-4	203	NA 163	Insecticide,	Inorganic
				Herbicide	
Calcium thiosulfate	10124-41-1	80101	930	Insecticide,	Inorganic
		· '		Fungicide,	
G11. /				Herbicide	
Calcium-zinc LN 193	NA 653	NA 120	3871	N/A	Inorganic-Zinc
(complex)	10110 01				
Calomel	10112-91-1	52201	100	Fungicide	Inorganic-Mercury,
	7440 44 0	15001	·		Heavy metal
Carbon	7440-44-0	16001	712	Water	Inorganic
•				Treatment,	
C-111-1	1222.06.4	271 440		Rodenticide	
Carbon black pigment	1333-86-4	NA 442	2445	Dye	Inorganic
Carbon dioxide	124-38-9	16601	2207	Fumigant,	Inorganic
				Insecticide,	
Co-h 1'1C 1	75.15.0	1,535	46-	Rodenticide	
Carbon disulfide	75-15-0	16401	108	Fumigant,	Inorganic
				Solvent,	ļ
				Breakdown	
				product,	İ
Chloringto 1 to 1 = 3'	56000 00 4	00000	2011	Nematicide	
Chlorinated trisodium	56802-99-4	#####	2214	Water	Inorganic
phosphate (prior TSP &	İ			Treatment	
sodium hypochlorite)	7792.50.5	20501	101	3.51	
Chlorine	7782-50-5	20501	131	Microbiocide,	Inorganic
				Water	
<u> </u>				Treatment	

Chemical Name	CACATORIL	III C EDA DO	104.61		
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Chlorine dioxide	10049-04-4	<u>Code</u> 20503	<u>Code</u> 2053	36' 11 11	
Canorine dioxide	10049-04-4	20303	2053	Microbiocide,	Inorganic
		ļ	<b>!</b>	Water Treatment	
Chlorophyllin	11006-34-1	NA 191	NA 190	Fungicide,	Towns of C
	11000 5 1 1	141171	IVA 190	Microbiocide	Inorganic-Copper,
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	Botanical Inorganic-
			1.0,	Herbicide,	Chromium(VI),
				Microbiocide	Inorganic-Zinc,
					Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood	Inorganic-
	ŀ			Preservative	Chromium(VI),
					Heavy metal
Chromic acid	7738-94-5	21101	1188	Wood	Inorganic-
· ·				Preservative	Chromium(VI),
	1000				Heavy metal
Chromic oxide	1308-38-9	21103	NA 173	Wood	Inorganic-
·				Preservative	Chromium(VI),
Chromium dioxide	12018-01-8	374 411	0.450		Heavy metal
Cobaltous sulfate		NA 411	2470	N/A	Inorganic
	10124-43-3	NA 114	3110	N/A	Inorganic
Copper Copper (from triethanolamine	7440-50-8	22501	714	Fungicide	Inorganic-Copper
complex)	82027-59-6	24403	NA 198	Algaecide	Inorganic-Copper
Copper 2-ethylhexanoate	22221-10-9	41201	2025		
Copper 3-phenylsalicylate		41201	2235	Fungicide	Inorganic-Copper
Copper 8-quinolinoleate	1250682	23801	NA 191	N/A	Inorganic-Copper
	10380-28-6	24002	159	Fungicide, Microbiocide	Inorganic-Copper
Copper abietate	10248-55-2	23301	NA 184	Fungicide	Inorganic-Copper
. Copper acetate	831632	44002	147	Fungicide	Inorganic-Copper
Copper ammonium acetate	NA 1544	NA 225	NA 225	Fungicide	Inorganic-Copper
Copper ammonium carbonate	33113-08-5	22703	1762	Fungicide	Inorganic-Copper
Copper ammonium complex	16828-95-8	22702	3550	Fungicide	Inorganic-Copper
Copper arsenate	10103-61-4	22801	NA 178	Herbicide,	Inorganic-arsenic.
				Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper
Copper arsenite	10290-12-7	22401	NA 177	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
Copper as elemental from	50276 01 5			Rodenticide	Inorganic-Copper
copper as elemental from copper - etidronic acid complex	50376-91-5	24404	NA 199	N/A	Inorganic-Copper
Copper beta cyclodextrin	NA 1366	NA 193	NA 193	Fungicide	Inorganic-Copper
hydroxide	İ			r unglolde	morganic-Copper
Copper bronze powder	7440-50-8	22501	1457	Antifoulant	Inorganic-Copper
Copper carbonate, basic	1184-64-1	22901	60	Fungicide,	Inorganic-Copper
	I			Algaecide,	morgame-copper
		l	1	Insecticide	
Copper chloride (anhydrous)	1344-67-8	23802	NA 192	N/A	Inorganic-Copper
Copper chloride (dihydrate)	10125-13-0	23701	NA 190	N/A	Inorganic-Copper
Copper citrate	10402-15-0	44005	1406	N/A	Inorganic-Copper
Copper citrate chelate	NA 961	NA 387	3547	N/A	Inorganic-Copper
Copper complex with ammonia	67989-88-2	#####	NA 130	Fungicide	Inorganic-Copper
and ethylene diamine	İ			8-0.00	
tetraacetate					
Copper cresylate	12379-42-9	23001	NA 181	Fungicide	Inorganic-Copper
Copper	53404-24-3	41202	NA 349	N/A	Inorganic-Copper
				<del></del>	- S - Coppor

<u>Chemical Name</u>	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
dehydroabietylammonium 2-	<u> </u>	Code	Code		
ethylhexanoate Copper dihydrazinium sulfate	33271-65-7	50504	752	77/1	
Copper ethanolamine complex	14215-52-2	24409	753 NA 201	N/A	Inorganic-Copper
Copper ethanolamine	NA 1044	NA 146		Algaecide	Inorganic-Copper
complexes, mixed			3551	Algaecide	Inorganic-Copper
Copper ethylenediamine complex	13426-91-0	24407	3549	Herbicide	Inorganic-Copper
Copper gluconate chelate	814-91-5	23305	3548	N/A	Inorganic-Copper
Copper hydrazinium sulfate	53433-02-6	50501	NA 418	Fungicide	Inorganic-Copper
Copper hydroxide	20427-59-2	23401	151	Fungicide, Microbiocide, Nematicide	Inorganic-Copper
Copper hydroxide - triethanolamine complex	NA 1017	NA 105	1826	N/A	Inorganic-Copper
Copper isodecanoate	84082-88-2	41221	NA 354	N/A	Inorganic-Copper
Copper isononanoate	72915-82-3	41211	NA 352	N/A	Inorganic-Copper
Copper isooctanoate	88859-94-3	41204	NA 350	N/A	Inorganic-Copper
Copper lactate	16039-52-4	23302	NA 185	N/A	Inorganic-Copper
Copper linoleate	7721-15-5	23303	1110	N/A	Inorganic-Copper
Copper metaborate	39290-85-2	22802	NA 179	N/A	Inorganic-Copper
Copper monoethanolamine complex	NA 960	NA 384	3552	N/A	Inorganic-Copper
Copper naphthenate	1338-02-9	23102	153	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper naphthenate	1338-02-9	6000	NA 172	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper naphthenate	1338-02-9	6300	NA 172	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper nitroacetate	22221-12-1	23201	NA 183	N/A	Inorganic-Copper
Copper octanoate	20543-04-8	23306	5225	Fungicide	Inorganic-Copper
Copper oleate	10402-16-1	23304	154	Fungicide	Inorganic-Copper
Copper oxide (ic)	1317-38-0	42401	2231	Fungicide, Insecticide	Inorganic-Copper
Copper oxide (ous)	1317-39-1	25601	175	Fungicide, Insecticide	Inorganic-Copper
Copper oxychloride	1332-40-7	8001	156	Fungicide	Inorganic-Copper
Copper oxychloride (Cu2Cl(OH)3)	1332-65-6	23501	NA 186	Fungicide	Inorganic-Copper
Copper oxychloride sulfate	8012-69-9	23503	158	Fungicide	Inorganic-Copper
Copper oxysulfate	12158-97-3	23504	NA 188	N/A	Inorganic-Copper
Copper oxysulfate	82010-79-5	23504	NA 189	N/A	Inorganic-Copper
Copper pentachlorophenate	15773-35-0	63011	NA 512	Wood	Chlorinated Phenol,

Chemical Name	CAS Number	U.S. EPA PC	CA Chann	77 CD	T
CHOMICAL PULLO	CABINITION	Code	CA Chem Code	<u>Use Type</u>	Chemical Class
		Code	Code	Preservative, Microbiocide, Algaecide, Fungicide	Inorganic-Copper
Copper phosphate	10103-48-7	22902	NA 180	N/A	Inorganic-Copper
Copper phthalocyanine	147-14-8	NA 381	2479	Dye	Inorganic-Copper
Copper pyrophosphate	10102-90-6	69701	NA 663	N/A	Inorganic-Copper
Copper salts of fatty and rosin	9007-39-0	23104	155	Fungicide	Inorganic-Copper
acids Copper salts of the acids of tall oil	61789-22-8	23103	NA 182	N/A	Inorganic-Copper
Copper silicate	1344-72-5	24301	NA 197	N/A	Inorganic-Copper
Copper sodium sulfate- phosphate complex	NA 1023	NA 121	755	N/A	Inorganic-Copper
Copper sulfate (anhydrous)	7758-98-7	24408	1778	Fungicide, Algaecide, Molluscicide	Inorganic-Copper
Comper sulfate (basic)	1344-73-6	8101	162	Fungicide, Algaecide, Molluscicide	Inorganic-Copper
Copper sulfate (pentahydrate)	7758-99-8	24401	161	Algaecide, Fungicide, Insecticide, Water Treatment, Molluscicide, Nematicide	Inorganic-Copper
Copper sulfate ethylene diamine	NA 1036	NA 132	2480	N/A	Inorganic-Copper
Copper sulfate, monohydrate	10257-54-2	24402	1789	Fungicide, Algaecide, Molluscicide	Inorganic-Copper
Copper sulfate, tri-basic	NA 1384	NA 195	NA 194	Herbicide, Algaecide, Fungicide, Water Treatment	Inorganic-Copper
Copper triethanolamine complex	68027-59-6	NA 125	1615	Algaecide	Inorganic-Copper
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide, Wood Preservative	Inorganic- Chromium(VI), Inorganic-Zinc, Heavy metal, Inorganic-Copper
Copper-zinc sulfate complex	55072-57-6	8102	164	Fungicide	Inorganic-Zinc, Inorganic-Copper
Copper-zinc sulfate complex, monohydrate	NA 959	NA 382	1751	Fungicide	Inorganic-Zinc,
Crag turf fungicide 531 (Cd- Cu-Ca-Zn-Chromate)	12001-20-6	21006	NA 171	Fungicide	Inorganic-Copper Inorganic-Cadmium, Inorganic- Chromium(VI), Inorganic-Zinc, Heavy metal
Cryolite	15096-52-3	75101	173	Insecticide	Inorganic
Cuprammonium	NA 1382		NA 194	Fungicide	Inorganic-Copper
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Inorganic-arsenic,

Chemical Name	CAS Number	U.S. EPA PC	CA Char	Tr m	
Onemical Traine	CAS Number	Code	CA Chen Code	Use Type	Chemical Class
				Preservative	Heavy metal,
Cupric ferric subsulfate complex	12168-20-6	42402	NA 365	Molluscicide	Inorganic-Copper Inorganic-Copper
Cupric fluosilicate	12062-24-7	75309	NA 692	Insecticide	Inorganic-Copper
Cupric gluconate	527-09-3	24405	3117	Fungicide	Inorganic-Copper
Cupric nitrate	3251-23-8	76102	3118	N/A	Inorganic-Copper
Cuprous and cupric oxide, mixed	82010-82-0	42403	NA 366	N/A	Inorganic-Copper
Cuprous chloride (Cu2Cl2)	7758-89-6	#####	5597	Fungicide	Inorganic-Copper
Cuprous iodide	7681-65-4	#####	NA 902	N/A	Inorganic-Copper
Cuprous sulfide	22205-45-4	#####	NA 124	N/A	Inorganic-Copper
Cuprous thiocyanate	1111-67-7	25602	2108	Microbiocide	Inorganic-Copper
Device (swimming pool algaecide, copper generating) no guarantee required	NA 1504	NA 222	NA 222	Algaecide	Inorganic-Copper
Device (swimming pool algaecide, peroxide) no guarantee required	NA 1505	NA 222	NA 222	Algaecide	Inorganic
Device (swimming pool algaecide, salt in pool) no guarantee required	NA 1506	NA 222	NA 222	Algaecide	Inorganic
Di-potassium salts of phosphorous acid	13492-26-7	76416	NA 704	Fungicide, Microbiocide	Inorganic
Diammonium phosphate	7783-28-0	NA 819	654	Insecticide, Fungicide, Herbicide, Microbiocide, pH Adjustment	Inorganic
Diatomaceous earth	7631-86-9	72605	195	Insecticide, Molluscicide	Inorganic
Diatomaceous earth, other related	NA 1155	NA 173	90195	Insecticide, Molluscicide	Inorganic
Dihydrogen {ethylenediaminetetraacetato(4 -)}cuprate(2-)	54453-03-1	24406	NA 200	N/A	Inorganic-Copper
Disodium EDTA-copper	14025-15-1	NA 296	3173	N/A	Inorganic-Copper
Disodium mono ethanolamine phosphate	53404-45-8	76410		pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Disodium octaborate anhydrous	12008-41-2	11107	5053	Insecticide	Inorganic
Disodium octaborate tetrahydrate	12280-03-4	11103	1800	Insecticide, Herbicide	Inorganic
Disodium phosphate	7558-79-4	76403	2534	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
EDTA diammonium copper salt	7379-26-2	39117	1613	Algaecide	Inorganic-Copper
EDTA, copper complex	12276-01-6	39105	1135	Algaecide	Inorganic-Copper
EDTA, disodium zinc salt	14025-21-9	NA 274	3189	N/A	Inorganic-Zinc
Fatty acid* - silver complex *(100% C8)	24927-67-1	72505	NA 675	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Char	77 (D	
Citchical Ivainc	CASIVULIDEL	Code	CA Chem Code	Use Type	Chemical Class
Feldspar	68476-25-5	NA 118	3656	NT/A	<del> </del>
Ferric chloride	7705-08-0	34901	3205	N/A	Inorganic
Ferric oxide	1332-37-2	NA 104		Herbicide	Inorganic
Ferric sulfate (anhydrous)	10028-22-5	34902	3206	N/A	Inorganic
Ferrous ammonium sulfate	10028-22-3	50506	1811	Herbicide	Inorganic
Ferrous ammonium sulfate	<del></del>		1307	Herbicide	Inorganic
hexahydrate	7783-85-9	50509	NA 421	Herbicide	Inorganic
Ferrous sulfate	7720-78-7	NA 120	289	Herbicide, Molluscicide	Inorganic
Ferrous sulfate (monohydrate)	17375-41-6	50507	1812	Herbicide, Defoliant	Inorganic
Ferrous sulfate heptahydrate	7782-63-0	50502	1687	Herbicide	Inorganic
Granite	NA 105	NA 209	3663	N/A	Inorganic
Graphite	7782-42-5	NA 210	3217	N/A	Inorganic
Hydrated lime	1302-62-0	NA 194	3669	pH Adjustment,	Inorganic
				Fungicide,	morganic
				Microbiocide,	
				Herbicide	
Hydriodic acid	10034-85-2	46912	NA 408	N/A	Inorganic
Hydrocyanic acid	74-90-8	45801	NA 388	Fumigant	Inorganic
Hydrofluoric acid	7664-39-3	45601	NA 387	N/A	Inorganic
Hydrogen chloride	7647-01-0	45901	329	Fumigant,	Inorganic
' -				Fungicide,	J
				Nematicide, pH	
				Adjustment,	
**				Herbicide	
Hydrogen peroxide	7722-84-1	595	1794	Microbiocide,	Inorganic
				Fungicide,	
		į.		Herbicide,	
Hydrogen sulfide	2147416	NA 227	NTA 007	Rodenticide	
Trydrogen sumde	214/410	NA 221	NA 227	Breakdown	Inorganic
Hydrophosphorous acid	NA 95	NA 189	2600	product	
Hydroxymercury cresol	12379-66-7	46001	NA 390	N/A	Inorganic
	12575-00-7	40001	IVA 390	Microbiocide	Inorganic-Mercury,
: Hypochlorous acid	7790-92-3	#####	NA 110	Water	Heavy metal, Phenols
3,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	""""	IVATIO	Treatment,	Inorganic
•				Microbiocide,	
				pH Adjustment	
Hypoiodous acid	14332-21-9	#####	NA 153	N/A	Inorganic
Inorganic phosphate	NA 940	NA 169		pH Adjustment,	Inorganic
				Fungicide,	morganic
		ľ		Herbicide,	
				Microbiocide	ľ
Iodic acid	7782-68-5	46902	NA 405	N/A	Inorganic
Iodine	7553-56-2	46905	718	Microbiocide,	Inorganic
	I			Fungicide,	
				Herbicide	1
Iron	7439-89-6	NA 121	655	N/A	Inorganic
Iron oxide (Fe2O3)	1309-37-1	#####	NA 870	Herbicide	Inorganic
Iron oxide pigment	NA 942	NA 175	2618	Dye	Inorganic
Iron phosphate	10045-86-0	34903	5014	Molluscicide	Inorganic
Kaolin	1332-58-7	#####	2629	Insecticide,	Inorganic
				Adjuvant,	
				Fungicide,	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	200 1150	Chemical Class
				Microbiocide	
Lauric acid, barium cadmium salt	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium, Heavy metal
Lead	7439-92-1	NA 134	2638	N/A	Inorganic-Lead, Heavy metal
Lead acetate	301-04-2	48001	NA 415	N/A	Inorganic-Lead, Heavy metal
Lead arsenate	7784-40-9	13503	353	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Inorganic-lead, Heavy metal
Lead arsenate, basic	1327-31-7	13502	354	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Inorganic-lead, Heavy metal
Lead metasilicate	NA 938	NA 138	1106	N/A	Inorganic-Lead, Heavy metal
Lead monoxide	10190-55-3	NA 123	1271	N/A	Inorganic-Lead, Heavy metal
Lead naphthenate	61790-14-5	48004	3296	N/A	Inorganic-Lead, Heavy metal
Lignin sulfonic acid, copper salt	NA 933	NA 126	1925	N/A	Inorganic-Copper
Lignin sulfonic acid, zinc salt	NA 1014	NA 102	1768	N/A	Inorganic-Zinc
Lignin sulfonic acid, zinc, manganese & iron salts	NA 1030	NA 126	1771	N/A	Inorganic-Zinc
Lime	1305-78-8	75604	977	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Lime phosphate	NA 1432	NA 200	NA 199	Plant Growth Regulator	Inorganic
Lime-sulfur	1344-81-6	76702	358	Insecticide, Fungicide	Inorganic
Litharge	1317-36-8	48002	NA 416	N/A	Inorganic-Lead, Heavy metal
Lithium carbonate	554-13-2	NA 119	3924	pH Adjustment, Fungicide, Microbiocide, Herbicide	Inorganic
Lithium chloride	7447-41-8	#####	5318	N/A	Inorganic
Lithium hydroxide	1310-65-2	NA 143	3267	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Lithium hypochlorite	13840-33-0	14702	922	Microbiocide, Water Treatment	Inorganic
Lithium perchlorate	2150251	NA 115	3268	N/A	Inorganic
Magnesium aluminum fluosilicate	1327-43-1	75310	NA 693	Insecticide	Inorganic
Magnesium arsenate	10103-50-1	13504	NA 126	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Magnesium carbonate	546-93-0	73503	2654	pH Adjustment, Fungicide, Microbiocide, Herbicide	Inorganic

<u>Chemical Name</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
24		<u>Code</u>	<u>Code</u>		
Magnesium chlorate	10326-21-3	· <del>}////////</del>	NA 155	Defoliant,	Inorganic
			1	Herbicide,	
			1	Microbiocide	
Magnesium chloride	7786-30-3	13902	365	Molluscicide,	<del></del>
				Herbicide,	Inorganic
			1	Insecticide,	
			İ		
Magnesium chloride,	7791-18-6	NA 110	2656	Microbiocide	+
hexahydrate	////-10-0	INA 110	2655	Molluscicide,	Inorganic
	ĺ			Herbicide,	
}			l	Insecticide,	1
Magnesium fluosilicate	16040 60 0		ļ	Microbiocide	i
	16949-65-8	75304	NA 689	Insecticide	Inorganic
Magnesium lime	NA 931	NA 111	3679	N/A	Inorganic
Magnesium nitrate	10377-60-3	NA 115	3269	Rodenticide,	Inorganic
				Microbiocide	morgame
Magnesium oxide	1309-48-4	9235	2656	pH Adjustment	<del> </del>
		7200	2030		, Inorganic
<u>'</u>	]			Fungicide,	
			i i	Herbicide,	
Magnesium phosphide	12057-74-8	66504	2005	Microbiocide	
i i i i i i i i i i i i i i i i i i i	12037-74-8	66504	2085	Fumigant,	Inorganic
Magnesium silicate	1242.00.0			Rodenticide	
iviagnesium sineate,	1343-88-0	72601	NA 680	Insecticide,	Inorganic
,			Į.	Adjuvant,	3
	]			Fungicide,	
			i	Microbiocide	
Magnesium silicate, hydrous	14807-96-6	NA 113	2658	Adjuvant	Inorganic
Magnesium sulfate	7487-88-9	50503	1339	Molluscicide,	
			1335	Adjuvant	Inorganic
Malachite (copper equivalent	1319-53-5	#####	NA 155		
57%)		"""""	14A 133	N/A	Inorganic-Copper
Mancozeb	2233100	14504	211		
	2233100	14304	211	Fungicide	Dithiocarbamate,
Maneb and nickel sulfate	8005-46-7	.00000	-		Inorganic-Zinc
hexahydrate (014505 +	0003-40-7	#####	NA 158	Fungicide	Dithiocarbamate,
050505)					Inorganic-Nickel
Manganese (II) oxide	1344-43-0	NA 104	3274	N/A	Inorganic
Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic-arsenic,
			ŀ	Insecticide,	
			- 1	Rodenticide	Heavy metal
Manganese carbamate	NA 55	NA 103	3273	N/A	Inoue '-
Manganese sulfate	7785-87-7	NA 105	658		Inorganic
Manganous oxide	1344-43-0	NA 143		N/A	Inorganic
Mercuric acetate	1600-27-7		3275	N/A	Inorganic
acciaic	1000-2/-/	52104	NA 441	N/A	Inorganic-Mercury,
Mercuric chloride	7407.04 =				Heavy metal
Moremic chionds	7487-94-7	52001	372	Fungicide	Inorganic-Mercury,
Manageria					Heavy metal
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury,
dithiocarbamate		ļ	1		Heavy metal,
- I amount out that c		İ		]	Dithiocarbamate
Mercuric iodide	7774-29-0	52003	NA 438	NT/A	Ymanna 1
Mercuric iodide	7774-29-0	52003	NA 438	N/A	Inorganic-Mercury,
					Heavy metal
Mercuric iodide	7774-29-0 1191-80-6	52003 52105	NA 438 3276	N/A N/A	Heavy metal Inorganic-Mercury,
Mercuric iodide  Mercuric oleate	1191-80-6	52105	3276	N/A	Heavy metal Inorganic-Mercury, Heavy metal
Mercuric iodide					Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury,
Mercuric iodide  Mercuric oleate	1191-80-6	52105	3276	N/A	Heavy metal Inorganic-Mercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	300 2,700	Onemical Class
					Heavy metal
Mercury naphthenate	1336-96-5	52101	NA 439	Wood Preservative, Insecticide, Fungicide	Inorganic-Mercury, Heavy metal
Mercury pentanedione	14024-55-6	52103	NA 440	N/A	Inorganic-Mercury, Heavy metal
Mercury phenate	588-66-9	52106	NA 442	N/A	Inorganic-Mercury, Heavy metal
Metallic silver	7440-22-4	72501	2125	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate, Inorganic-Zinc
Mica	12003-33-2	NA 118	3690	N/A	Inorganic
Mixed copper chelates or complex blend of copper salts	NA 1437	NA 213	NA 212	Fungicide	Inorganic-Copper
Molybdenum	7439-98-7	NA 152	3903	N/A	Inorganic
Molybdic acid, disodium salt	7631-95-0	NA 135	2690	N/A	Inorganic
Mono-potassium salts of phosphorous acid	13977-65-6	76416	NA 705	Fungicide, Microbiocide	Inorganic
Monosodium phosphate	7558-80-7	76409	1772	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
N-(2-hydroxyethyl) ethylene diamine triacetic acid, copper salt	NA 1025	NA 122	1130	N/A	Inorganic-Copper
Neodecanoic acid, copper salt	50315-14-5	97503	NA 854	N/A	Inorganic-Copper
Nickel	7440-02-0	NA 121	762	N/A	Inorganic-Nickel
Nickel diethyl hexyl acid phosphate complex	NA 928	NA 53	3696	N/A	Inorganic-Nickel
Nickel sulfate (anhydrous)	7786-81-4	50508	NA 420	Fungicide	Inorganic-Nickel
Nickel sulfate hexahydrate	10101-97-0	50505	NA 419	Fungicide	Inorganic-Nickel
Nitric acid	7697-37-2	45951	NA 389	N/A	Inorganic
Nitric acid technical	7697-37-2	NA 47	2703	N/A	Inorganic
Nitrogen trichloride	10025-85-1	NA 50	2705	N/A	Inorganic
Nitrogen, liquified	7727-37-9	######	2267	Insecticide	Inorganic
Nitrous oxide	10024-97-2	NA 115	3302	N/A	Inorganic
Noury dry cobalt 12%	NA 21	NA 33	2712	N/A	Inorganic
Nuxtra manganese 12% catalyst	NA 746	NA 135	2719	N/A	Inorganic
o-Phenylphenol, alkyl* amine - zinc salt of *(100% C18)	82010-74-0	64107	NA 533	Microbiocide	Phenols, Inorganic- Zinc
Oxalic acid	144-62-7	9601	899	Microbiocide	Inorganic
Ozone	10028-15-6	NA 228	NA 228	Water Treatment, Microbiocide	Inorganic
p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride	53433-01-5	52002	NA 437	Microbiocide	Inorganic-Mercury, Heavy metal
Paris green	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal

Penta potassium triphosphate	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Igo Tymo	G- 10
Pentachlorophenol, zinc salt		<u>G210 I (unioci</u>			Use Type	Chemical Class
Pentachlorophenol, zinc salt	Penta potassium triphosphate	13845-36-8			N/A	Inongonia
Perboric acid, sodium salt						
Perboric acid, sodium salt NA 1160 NA 174 5452 Insecticide Fungicide Fundonopydrate Monophydrate NA 756 NA 670 3321 N/A Inorganic Perlbioric acid, calcium salt 13477-36-6 NA 670 3321 N/A Inorganic Perlbioric acid, calcium salt 13477-36-6 NA 670 3321 N/A Inorganic Perlite NA 756 NA 136 2767 N/A Inorganic Peroxyacetic acid 79-21-0 63201 2291 Microbiocide, Fungicide, Herbicide, Rodenticide Herbicide, Rodenticide Herbicide, Rodenticide Phosphine 7803-51-2 66500 3541 Fungigant, Inorganic Inorganic Phosphoric acid 7664-38-2 76001 871 Fungicide, pH Adjustment, Herbicide, Microbiocide Phosphoric acid, disodium salt, dihydrate 10028-24-7 76415 NA 703 PH Adjustment, Fungicide, Herbicide, Microbiocide Phosphoric acid, trisodium salt (chlorinated) 2777 PH Adjustment, Fungicide, Herbicide, Microbiocide Phosphoric acid, trisodium salt (chlorinated) 2777 Phosphoric acid, 13598-36-2 76002 NA 699 Fungicide, Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Potassium aluminum silicate NA 996 NA 774 3344 Adjuvant Inorganic Potassium aluminum silicate NA 996 NA 774 3344 Inorganic Inorganic Potassium aluminum silicate NA 996 NA 774 3344 Inorganic Inorganic Potassium aluminum silicate Potassium aluminum silicate Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Inorganic Potassium biculforde 7782-29-9 75203 NA 687 N/A Inorganic Inorganic Inorganic Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Inorganic Inor	•				1	Inorganic-Zinc
Perboric acid, sodium salt						morgamo-zmc
Perboric acid, soldium salt						
Perboric acid, sodium salt						
Perchloric acid, calcium salt   13477-36-6   NA 670   3321   N/A   Inorganic   Perchloric acid, calcium salt   79-21-0   63201   2291   Microbiocide, Fungicide, Herbicide, He				5452	Insecticide	Inorganic
Perchloric acid, calcium salt		10332-33-9	11105	5052	Insecticide	Inorganic
Perlite						
Peroxyacetic acid						Inorganic
Peroxydisulfuric acid   13445-49-3   63601   NA 524   N/A   Inorganic   Phosphine   7803-51-2   66500   3541   Fungicide, pH Adjustment, Herbicide, Microbiocide   Phosphoric acid, disodium salt, dihydrate   10028-24-7   76415   NA 703   PH Adjustment, Fungicide, Herbicide, Microbiocide   Phosphoric acid, monopotassium salt   10028-24-7   76415   NA 703   PH Adjustment, Fungicide, Herbicide, Microbiocide   Phosphoric acid, trisodium salt (chlorinated)   7778-77-0   76413   2777   PH Adjustment, Fungicide, Herbicide, Microbiocide   Phosphoric acid, trisodium salt (chlorinated)   778-77-0   76413   2777   PH Adjustment, Fungicide, Herbicide, Microbiocide   Phosphorous acid   13598-36-2   76002   NA 699   Fungicide, Microbiocide   Phosphorous acid   13598-36-2   76002   NA 699   Fungicide, Microbiocide   Phosphorous pentasufide   7723-14-0   66502   513   N/A   Inorganic   Phosphorous pentasufide   1314-36-3   NA 640   2778   N/A   Inorganic   Polyoxin D zinc salt   14669-78-1   ##### MH 129   Fungicide   Inorganic   Polassium aluminum silicate   NA 996   NA 774   3344   Adjuvant   Inorganic   Potassium aluminum sulfate   7784-24-9   NA 775   3345   Insecticide, Rodenticide   Potassium arsenite   10124-50-2   13605   NA 132   Herbicide, Inorganic-arsenic, Heavy metal   Potassium bicutoride   7789-29-9   75203   NA 687   N/A   Inorganic   Herbicide   Herb	* ***					
Peroxydisulfuric acid   13445-49-3   63601   NA 524   N/A   Inorganic   Inor	Регохуасенс асід	79-21-0	63201	2291		Inorganic
Peroxydisulfuric acid   13445-49-3   63601   NA 524   NI/A   Inorganic				•		
Peroxydisulfuric acid						
Phosphoric acid	Peroxydisulfuric acid	13445-49-3	63601	NIA 524	<del></del>	T
Phosphoric acid						
Phosphoric acid 7664-38-2 76001 871 Fungicide, pH Adjustment, Herbicide, Microbiocide Phosphoric acid, disodium salt, dihydrate 10028-24-7 76415 NA 703 PH Adjustment, Fungicide, Herbicide, Microbiocide Phosphoric acid, monopotassium salt 2777 Ph Adjustment, Fungicide, Herbicide, Microbiocide Phosphoric acid, trisodium salt (chlorinated) 56802-99-4 ##### 3851 Water Treatment (chlorinated) Phosphorous acid 13598-36-2 76002 NA 699 Fungicide, Microbiocide Phosphorus 7723-14-0 66502 513 N/A Inorganic Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Potassium aluminum silicate NA 996 NA 774 3344 Adjuvant Inorganic Potassium aluminum sulfate 7784-24-9 NA 775 3345 Insecticide, Inorganic Inorganic Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Inorganic-arsenic, Heavy metal Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bifuoride 7789-29-9 75203 NA 687 N/A Inorganic Inorganic Potassium bifuoride 7789-29-9 75203 NA 687 N/A Inorganic Inorganic Potassium bifuoride 7789-29-9 75203 NA 687 N/A Inorganic Inorganic Potassium bisulfate 7646-93-7 5605 1860 Microbiocide Inorganic Inorganic Potassium bisulfate 7646-93-7 5605 1860 Microbiocide Inorganic Inorganic Inorganic Potassium bisulfate 7646-93-7 73504 1620 PH Adjustment, Fungicide, Microbiocide Inorganic I			00500	2241		morgame
Phosphoric acid, disodium salt, dihydrate	Phosphoric acid	7664-38-2	76001	871		Inorganic
Phosphoric acid, disodium salt, dihydrate  Phosphoric acid, disodium salt, dihydrate  Phosphoric acid, monopotassium salt  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chlorinate	_					morgame
Phosphoric acid, disodium salt, dihydrate  Phosphoric acid, monopotassium salt  Phosphoric acid, monopotassium salt  Phosphoric acid, monopotassium salt  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chloride)  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chloride)  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, t						
Phosphoric acid, monopotassium salt					Microbiocide	
Phosphoric acid, monopotassium salt		10028-24-7	76415	NA 703	pH Adjustment,	Inorganic
Phosphoric acid, monopotassium salt	dihydrate					_
Phosphoric acid, monopotassium salt  Phosphoric acid, trisodium salt (chlorinated)  Phosphoric acid, trisodium salt (chlorinated)  Phosphorous acid  Phosphorous acid  Phosphorus  Phospho						
monopotassium salt  Phosphoric acid, trisodium salt  (chlorinated)  Phosphorous acid  13598-36-2  76002  NA 699  Fungicide, Microbiocide  Phosphorous acid  13598-36-2  76002  NA 699  Fungicide, Microbiocide  Phosphorous  7723-14-0  66502  513  N/A  Inorganic  Phosphorus  Phosphorus pentasulfide  1314-56-3  NA 640  2778  N/A  Inorganic  Potassium aluminum silicate  NA 996  NA 774  3344  Adjuvant  Inorganic  Potassium aluminum sulfate  Potassium arsenite  10124-50-2  13605  NA 131  Potassium arsenite  13464-35-2  13605  NA 132  Potassium arsenite  13464-35-2  13605  NA 132  Potassium arsenite  13464-35-2  13605  NA 132  Potassium arsenite  Potassium bicarbonate  Potassium bicarbonate  Potassium bifluoride  Potassium bisulfate  7789-29-9  75203  NA 687  Potassium bisulfate  Potassium bisulfate  Potassium bisulfate  Potassium bisulfate  7646-93-7  76002  NA 699  Fungicide, Microbiocide  NA 132  Herbicide, Inorganic-arsenic, Heavy metal  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Potassium bifluoride  7789-29-9  75203  NA 687  N/A  Inorganic  Inorganic  Inorganic  Potassium bisulfate  Potassium bisulfate  7646-93-7  7605  1860  PH Adjustment, Fungicide, Herbicide	Phosphoric said	7770 77 0	76412	0000		
Phosphoric acid, trisodium salt (chlorinated)		///8-//-0	/0413	2777		Inorganic
Phosphoric acid, trisodium salt (chlorinated)	monopotussium sait					
Phosphoric acid, trisodium salt (chlorinated)         56802-99-4 (chlorinated)         ##### 3851         Water Treatment Treatment         Inorganic           Phosphorous acid         13598-36-2         76002         NA 699         Fungicide, Microbiocide Fungicide, Microbiocide         Inorganic           Phosphorus         7723-14-0         66502         513         N/A         Inorganic           Phosphorus pentasulfide         1314-56-3         NA 640         2778         N/A         Inorganic           Polyoxin D zinc salt         146659-78-1         #####         NA 129         Fungicide         Inorganic           Potassium aluminum silicate         NA 996         NA 774         3344         Adjuvant         Inorganic           Potassium aluminum sulfate         7784-24-9         NA 775         3345         Insecticide, Herbicide, Insecticide, Rodenticide         Inorganic           Potassium arsenite         10124-50-2         13605         NA 131         Herbicide, Insecticide, Rodenticide         Heavy metal           Potassium arsenite         13464-35-2         13605         NA 132         Herbicide, Insecticide, Rodenticide         Heavy metal           Potassium bicarbonate         298-14-6         73508         5037         Fungicide         Inorganic           Potassium bisulfate						
Chlorinated   Treatment   Treatment   Phosphorous acid   13598-36-2   76002   NA 699   Fungicide, Microbiocide   Inorganic	Phosphoric acid, trisodium salt	56802-99-4	#####	3851.		Ingrania
Phosphorous acid  Phosphorus  7723-14-0  66502  S13  N/A  Inorganic  Phosphorus pentasulfide  Polyoxin D zinc salt  146659-78-1  #####  NA 129  Potassium aluminum sulfate  Potassium arsenite  10124-50-2  Potassium arsenite  13464-35-2  Potassium azide  Potassium azide  Potassium bifuloride  Potassium bisulfate  Potassium bisulfate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  S84-08-7  73504  Potassium bromide  Potassium carbonate  Potassium carbonate  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium carbonate  Potassium bromide  Potassium carbonate  Potassium carbonate  Potassium carbonate  Potassium bromide  Potassium carbonate  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium carbonate  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium b	(chlorinated)					morganic
Phosphorus 7723-14-0 66502 513 N/A Inorganic Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Polyoxin D zinc salt 146659-78-1 ##### NA 129 Fungicide Inorganic-Zinc Potassium aluminum silicate NA 996 NA 774 3344 Adjuvant Inorganic Potassium aluminum sulfate 7784-24-9 NA 775 3345 Insecticide, Herbicide Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Insecticide, Rodenticide Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Insecticide, Rodenticide Potassium arsenite 20762-60-1 ##### NA 898 N/A Inorganic-arsenic, Heavy metal Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herb	Phosphorous acid	13598-36-2	76002	NA 699		Inorganic
Phosphorus pentasulfide 1314-56-3 NA 640 2778 N/A Inorganic Polyoxin D zinc salt 146659-78-1 ##### NA 129 Fungicide Inorganic-Zinc Potassium aluminum silicate NA 996 NA 774 3344 Adjuvant Inorganic Potassium aluminum sulfate 7784-24-9 NA 775 3345 Insecticide, Herbicide Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Insecticide, Rodenticide Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Insecticide, Insecticide, Rodenticide Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, He						
Polyoxin D zinc salt Potassium aluminum silicate Potassium aluminum sulfate Potassium aluminum sulfate Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium arsenite Potassium bicarbonate Potassium bicarbonate Potassium bisulfate Potassium bisulfate Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium bromide Potassium carbonate S84-08-7 Potassium bromide Potassium carbonate Potassium carbonate Potassium bromide Potassium carbonate S84-08-7 Potassium bromide Potassium carbonate Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic Inorganic					N/A	Inorganic
Potassium aluminum silicate NA 996 NA 774 3344 Adjuvant Inorganic Potassium aluminum sulfate 7784-24-9 NA 775 3345 Insecticide, Herbicide Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Inorganic-arsenic, Heavy metal Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Insecticide, Rodenticide Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic Potassium bisulfate 7646-93-7 5605 1860 PH Adjustment, Fungicide, Herbicide, Microbiocide Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 PH Adjustment, Inorganic					N/A	Inorganic
Potassium aluminum sulfate  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium arsenite  Potassium bicarbonate  Potassium bisulfate  Potassium bisulfate  Potassium bisulfate  Potassium bromide  Po						Inorganic-Zinc
Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Insecticide, Rodenticide Rodenticide  Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Rodenticide  Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic  Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic  Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic  Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide  Potassium bromide 2138164 13903 1090 Microbiocide Inorganic  Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic					Adjuvant	Inorganic
Potassium arsenite  10124-50-2  13605  NA 131  Herbicide, Insecticide, Rodenticide  Potassium arsenite  13464-35-2  13605  NA 132  Herbicide, Insecticide, Insecticide, Rodenticide  Potassium azide  Potassium bicarbonate  20762-60-1  Potassium bifluoride  Potassium bifluoride  Potassium bisulfate  Potassium bisulfate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  2138164  Potassium carbonate  13605  NA 131  Herbicide, Inorganic-arsenic, Heavy metal  NA 898  N/A  Inorganic  Inorganic  Potassium bromide  Potassium bromide  Potassium bromide  2138164  Potassium carbonate  13605  NA 132  Herbicide, Inorganic  Heavy metal  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic	Potassium aluminum sulfate	7784-24-9	NA 775	3345		Inorganic
Potassium arsenite  13464-35-2  13605  NA 132  Herbicide, Rodenticide  Potassium azide  Potassium bicarbonate  Potassium bifluoride  Potassium bisulfate  Potassium bisulfate  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium bromide  Potassium carbonate  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic  Inorganic	Potoggium amanita	10104 50 0	12605			
Potassium arsenite 13464-35-2 13605 NA 132 Herbicide, Insecticide, Rodenticide Heavy metal  Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic  Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic  Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic  Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide  Potassium bromide 2138164 13903 1090 Microbiocide Inorganic  Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic	Fotassium arsenite	10124-50-2	13605	NA 131		
Potassium arsenite  13464-35-2  13605  NA 132  Herbicide, Insecticide, Rodenticide  Potassium azide  20762-60-1  Potassium bicarbonate  298-14-6  Potassium bifluoride  Potassium bisulfate  7789-29-9  75203  NA 687  Potassium bisulfate  7646-93-7  5605  1860  Potassium bromide  Potassium bromide  Potassium bromide  2138164  Potassium carbonate  13605  NA 132  Herbicide, Heavy metal  NA 898  N/A  Inorganic  Inorganic  Potassium bromide  Potassium bromide  2138164  13903  1090  Microbiocide  Inorganic  Inorganic  Inorganic  Potassium carbonate  Potassium carbonate  584-08-7  73504  1620  PH Adjustment, Inorganic						Heavy metal
Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic Inorganic	Potassium arsenite	13464-35-2	13605	NA 132		Y
Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic		25.01.55.2	15005	11/1/13/2		
Potassium azide 20762-60-1 ##### NA 898 N/A Inorganic Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic			l			Heavy metal
Potassium bicarbonate 298-14-6 73508 5037 Fungicide Inorganic  Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic  Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide  Potassium bromide 2138164 13903 1090 Microbiocide Inorganic  Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic Inorganic	Potassium azide	20762-60-1	#####	NA 898		Inorganic
Potassium bifluoride 7789-29-9 75203 NA 687 N/A Inorganic  Potassium bisulfate 7646-93-7 5605 1860 pH Adjustment, Fungicide, Herbicide, Microbiocide  Potassium bromide 2138164 13903 1090 Microbiocide Inorganic  Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic Inorganic		298-14-6				
Potassium bisulfate  7646-93-7  5605  1860  pH Adjustment, Fungicide, Herbicide, Microbiocide  Potassium bromide  2138164  13903  1090  Microbiocide  Inorganic Potassium carbonate  584-08-7  73504  1620  pH Adjustment, Inorganic	Potassium bifluoride	7789-29-9				
Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic	Potassium bisulfate					
Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic			}			
Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic			1	j	Herbicide,	
Potassium bromide 2138164 13903 1090 Microbiocide Inorganic Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic					Microbiocide	i
Potassium carbonate 584-08-7 73504 1620 pH Adjustment, Inorganic						Inorganic
Fungicide,	Potassium carbonate	584-08-7	73504	1620		
			l		Fungicide,	-

Chemical Name	CAS Number	U.S. EPA PC	CA Chen	- II	
	OTAD THUMBOU	Code	Code	Use Type	Chemical Class
			2000	Microbiocide, Herbicide	
Potassium chlorate	696616	73303	3347	Defoliant,	Inorganic
ļ	•			Herbicide,	
Potassium chloride	7447 40 7	10001		Microbiocide	
Potassium chromate	7447-40-7 7789-00-6	13904	NA 137	N/A	Inorganic
1 ottosium emorrate	//89-00-6	68301	700	Wood	Inorganic-
	ĺ			Preservative	Chromium(VI),
Potassium cyanate	590-28-3	68002	NA 600	N/A	Heavy metal Inorganic
Potassium cyanide	151-50-8	#####	497	Rodenticide	Inorganic
Potassium dichromate	7778-50-9	68302	2167	Wood	Inorganic-
				Preservative	Chromium(VI)
Potassium hexafluoroarsenate	17029-22-0	<del>              </del>	NA 160	N/A	Inorganic-arsenic,
Potassium hydroxide	1210 50 0		<del></del>		Heavy metal
Potassium nydroxide	1310-58-3	75602	1306	pH Adjustment,	Inorganic
• •			•	Fungicide,	
				Herbicide, Microbiocide	
Potassium hypochlorite	7778-66-7	#####	NA 110	Microbiocide	Inorgania
Potassium iodate	2138256	75703	NA 696	N/A	Inorganic Inorganic
Potassium iodate (KH(IO3)2)	13455-24-8	75704	NA 697	N/A	Inorganic
Potassium iodide	7681-11-0	75701	1003	Microbiocide	Inorganic
Potassium mercuric iodide	7783-33-7	52107	NA 443	N/A	Inorganic-Mercury,
Determine			·		Heavy metal
Potassium monopersulfate Potassium nitrate	10361-76-9	#####	NA 104	N/A	Inorganic
Potassium nitrate	7757-79-1	76103	726	Rodenticide,	Inorganic
Potassium nitrite	7758-09-0	76000	20.54	Microbiocide	
. Tomostani maric	7738-09-0	76203	3356	Rodenticide,	Inorganic
Potassium permanganate	7722-64-7	68501	498	Microbiocide Fungicide,	<del></del>
		55501	770	Algaecide,	Inorganic
		f		Molluscicide,	
P				Microbiocide	,
Potassium peroxydisulfate	7727-21-1	63602	1028	Microbiocide,	Inorganic
		!		Fungicide,	
	İ			Herbicide,	
Potassium peroxymonosulfate	10058-23-8	63604	1859	Rodenticide Microbiocide,	
		05004	1039	Fungicide,	Inorganic
				Herbicide,	
				Rodenticide	
Potassium peroxymonosulfate	37222-66-5	63607	NA 527	Microbiocide,	Inorganic
sulfate, (2KHSO5.KHSO4.K2SO4)	1			Fungicide,	
(2,2,000),141504,12504)				Herbicide,	
Potassium peroxymonosulfate	70693-62-8	63607	NA 528	Rodenticide	
sulfate,		05007	NA 326	Microbiocide, Fungicide,	Inorganic
(2KHSO5.KHSO4.K2SO4)		- 1		Herbicide,	
				Rodenticide	
Potassium phosphate	7778-53-2	76407	3358	pH Adjustment,	Inorganic
			ĺ	Fungicide,	
			ŀ	Herbicide,	
Potassium phosphate, dibasic	2138438	#####	3359	Microbiocide	
1,	2130 /30	<i>'''''''''</i>	ا لاددد	pH Adjustment, Fungicide,	Inorganic
				rungicide,	

Chemical Name	CAS Number	ITTO PD L DO	Ta	<del></del>	
Chemical Name	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
		Code	Code	TT-1::1	
				Herbicide, Microbiocide	
Potassium phosphite	NA 1565	NA 229	5766	Fungicide	T
Potassium phosphonate	NA 1563	NA 227	NA 227	Fungicide	Inorganic
(phosphorous acid equivalent)		111122	1111 227	rungicide	Inorganic
Potassium polysulfide	37199-66-9	76703	NA 708	Insecticide,	Inorganic
		_		Fungicide	morganic
Potassium pyrophosphate	7320-34-5	76408	1175	pH Adjustment,	Inorganic
	,			Fungicide,	<b>3</b>
				Herbicide,	
Potassium silicate	1210 76 1	50.00		Microbiocide	
r otassium sincate	1312-76-1	72606	2826	Insecticide,	Inorganic
·	,	Ì		Adjuvant,	
		!		Fungicide,	
Potassium sulfate	7778-80-5	5603	3362	Microbiocide Insecticide.	
	71.70 00 5	3003	3302	Herbicide,	Inorganic
Potassium sulfite	10117-38-1	NA 785	3364	Fungicide	Inomonia
Potassium tetraborate	1332-77-0	NA 144	3365	Insecticide	Inorganic Inorganic
Potassium tetrathionate	13932-13-3	75903	NA 698	Insecticide,	Inorganic
			1.12 000	Herbicide	morganic
Potassium thiocyanate	333-20-0	68201	NA 605	Insecticide	Inorganic
Potassium thiosulfate	10233-00-8	80102	NA 773	Insecticide,	Inorganic
1				Fungicide,	Morganic .
				Herbicide	
Potassium triiodide	12298-68-9	46917	5066	Microbiocide	Inorganic
Propineb	12071-83-9	#####	NA 155	Fungicide,	Dithiocarbamate,
D	1000 00 0			Microbiocide	Inorganic-Zinc
Pumice Quartz sand	1332-09-8	NA 150	3777	N/A	Inorganic
Quartz sand	NA 1363	NA 193	NA 192	Insect	Inorganic
Rock powder	NA 1375	NA 104	NTA 104	Repellent	
Selenium and compounds	7782-49-2	NA 194 72001	NA 194	N/A	Inorganic
Selenium disulfide	7488-56-4	72001	NA 31 NA 673	N/A	Inorganic
Shale	NA 459	NA 821		N/A	Inorganic
Silica aerogel	63231-67-4	72602	3794 529	N/A	Inorganic
	05251-07-4	72002	329	Insecticide, Adjuvant,	Inorganic
	İ			1	
	ļ	İ	1	Fungicide, Microbiocide	
Silica gel	63231-67-4	72602	3557	Insecticide.	Inorganic
				Adjuvant,	morganic
1		l		Fungicide,	
Cilian handana				Microbiocide	
Silica hydrate	NA 461	NA 824	2853	N/A	Inorganic
Silica, crystalline-fused Silica, crystalline-quartz	60676-86-0	NA 823	2851	N/A	Inorganic
Silicic acid	14808-60-7	NA 138	2852	N/A	Inorganic
Silicon dioxide fresh water	1343-98-2	NA 825	3556	N/A	Inorganic
fossils	NA 1524	NA 223	NA 223	Insecticide	Inorganic
Silver acetate	563-63-3	72507	NIA COS	<u></u>	
Sirver decease	202-02-5	72507	NA 676	Microbiocide,	Inorganic-Silver,
ł	ļ			Fungicide,	Heavy metal
Silver carbonate	534-16-7	72509	NA 678	Herbicide Microbiocide,	T
1		.2305	***** 0/0	Fungicide,	Inorganic-Silver,
		1		Herbicide	Heavy metal
Silver chloride	7783-90-6	72506	2324	Microbiocide,	Inorganic-Silver,
		<u></u> , <u>l</u>			morganic-Suver,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chermical Class
				Fungicide, Herbicide	Heavy metal
Silver copper zeolite	130328-19-7	#11###	NA 110	Microbiocide	Inorganic-Silver, Heavy metal,
Silver fluoride	7775-41-9	72502	NA 674	Microbiocide,	Inorganic-Copper Inorganic-Silver,
				Fungicide, Herbicide	Heavy metal
Silver iodide, colloidal	7783-96-2	NA 124	1556	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver nitrate	7761-88-8	72503	2856	Microbiocide, Fungicide, Herbicide, Plant Growth Regulator	Inorganic-Silver, Heavy metal
Silver orthophosphate (Ag3PO4)	7784-09-0	72510	NA 679	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	1301-96-8	#####	NA 111	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	155645-89-9	######	NA 111	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver sodium hydrogen zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3)	NA 1166	72560	NA 164	Microbiocide	Inorganic-Silver, Heavy metal
Silver thiocyanate	1701-93-5	68203	NA 606	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver thiuronium acrylate co- polymer	53404-00-5	72701	NA 681	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver zeolite	130328-18-6	#####	NA 125	Microbiocide	Inorganic-Silver, Heavy metal
Silver zinc zeolite	130328-20-0	######	NA 111	Microbiocide	Inorganic-Silver, Inorganic-Zinc, Heavy metal
Silver, ionic	14701-21-4	NA 169	5150	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Soapstone	NA 465	NA 829	3797	N/A	Inorganic
Sodium	7440-23-5	NA 830	2858	N/A	Inorganic
Sodium acid phosphate	7558-80-7	76409	1413	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Sodium acid pyrophosphate	7758-16-9	NA 831	3381	pH Adjustment	Inorganic
Sodium aluminate	1302-42-7	NA 145	3382	N/A	Inorganic
Sodium aluminum fluosilicate	53404-77-6	75308	NA 691	Insecticide	Inorganic
Sodium aluminum phosphate Sodium arsenate	7785-88-8	NA 832	3383	N/A	Inorganic
Domain arsenate	13464-38-5	13505	283	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
Sodium arsenite	7784-46-5	13603	534	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
		Į .		Rodenticide,	
				Fungicide	
Sodium azide	26628-22-8	#####	NA 897	N/A	Inorganic
Sodium bicarbonate	144-55-8	73505	1134	Fungicide, pH	Inorganic
				Adjustment	
Sodium bichromate dihydrate	7789-12-0	68306	3980	Wood	Inorganic-
				Preservative	Chromium(VI),
Sodium bifluoride	1333-83-1	75201	2205		Inorganic
Sodium binoxalate	1186-49-8	75201	3385	N/A	Inorganic
Sodium bisulfate	7681-38-1	9602	NA 110	Microbiocide	Inorganic
Sodium disamate	/001-36-1	73201	905	pH Adjustment,	Inorganic
				Fungicide,	
		l		Herbicide, Microbiocide	
Sodium bisulfite	7631-90-5	78201	547	pH Adjustment,	Inorganic
		,0201	547	Fungicide	morganic
Sodium borohydride	16940-66-2	NA 834	3387	N/A	Inorganic
Sodium bromate	7789-38-0	13908	NA 138	N/A	Inorganic
Sodium bromide	7647-15-6	13907	1103	Molluscicide,	Inorganic
				Herbicide,	morganic
				Insecticide,	
				Microbiocide	
Sodium carbonate	497-19-8	73506	854	pH Adjustment,	Inorganic
				Fungicide,	
		ľ		Microbiocide,	
Sodium chlorate	0144501			Herbicide	
Sodium emorate	2144591	73301	536	Defoliant,	Inorganic
<u> </u>		İ		Herbicide,	
Sodium chloride	7647-14-5	13905	721	Microbiocide	
33444	7047-14-3	13903	/21	Molluscicide, Herbicide,	Inorganic
:				Insecticide,	
				Microbiocide	
Sodium chlorite	7758-19-2	20502	2148	Microbiocide,	Inorganic
				Water	morganic
				Treatment	
Sodium chromate	2144646	68303	1241	Wood	Inorganic-
i				Preservative	Chromium(VI),
9-1					Heavy metal
Sodium cyanide	143-33-9	74002	688	Rodenticide	Inorganic
Sodium dichromate	10588-01-9	68304	3395	Wood	Inorganic-
				Preservative	Chromium(VI),
Sodium dihydrogen phosphate	7558-80-7	76400	1000		Heavy metal
bodium umydrogen phosphate	/338-80-/	76409	1022	pH Adjustment,	Inorganic
]	}			Fungicide,	
		`		Herbicide,	
Sodium fluoride	7681-49-4	75202	537	Microbiocide Wood	Tno
		. 5202	337	Preservative,	Inorganic
	1			Insecticide	
Sodium fluosilicate	16893-85-9	75306	538	Insecticide	Inorganic
Sodium hexametaphosphate	10124-56-8	76402		pH Adjustment	Inorganic
Sodium hydrosulfite	7775-14-6	78202		pH Adjustment	Inorganic
Sodium hydroxide	1310-73-2	75603		pH Adjustment,	Inorganic
		<del> :-</del>			morganic

Chemical Name	CAS Number	U.S. EPA PO	CA Cher	n Use Type	T 01
		Code	Code	Use Type	Chemical Class
				Fungicide,	
	1	İ		Herbicide,	
0-1:1	<b>_</b>			Microbiocide	
Sodium hypobromite	NA 1442	NA 214	NA 213	Microbiocide	Inorganic
Sodium hypochlorite	7681-52-9	14703	539	Microbiocide	
j	1		ł	Water	, , , , , , , , , , , , , , , , , , , ,
	}			Treatment,	
G_1: 1 1 1				Nematicide	
Sodium hypophosphate	13721-43-2	NA 848	3409	N/A	Inorganic
Sodium hypophosphite	7681-53-0	NA 849	3410	N/A	Inorganic
Sodium iodide	7681-82-5	75702	NA 695	N/A	Inorganic
Sodium metabisulfite	7681-57-4	NA 191	NA 190	Fungicide	Inorganic
Sodium metaborate	7775-19-1	11104	689	Insecticide	
Sodium metaborate octahydrate	NA 1045	NA 154	4012	Insecticide	Inorganic
Sodium metaborate	NA 1046	NA 154	4013	Insecticide	Inorganic
tetrahydrate			1015	msecticide	Inorganic
Sodium metasilicate	6834-92-0	72604	940	Insecticide,	<del>                                     </del>
			-	Adjuvant,	Inorganic
• • • • • • • • • • • • • • • • • • • •				Fungicide,	
<u> </u>				Microbiocide	
Sodium metasilicate,	6834-92-0	72604	1840	Insecticide,	<del></del>
anhydrous		,,	1040	Adjuvant,	Inorganic
-				Fungicide,	
				Microbiocide	1
Sodium molybdate	7631-95-0	NA 855	1761	N/A	<del>                                     </del>
Sodium nitrate	7631-99-4	76104	696	Rodenticide,	Inorganic
		, 510 .	070	Microbiocide	Inorganic
Sodium nitrite	7632-00-0	76204	2862	Rodenticide,	T
			2002	Microbiocide	Inorganic
Sodium oxalate	62-76-0	9604	NA 111	Microbiocide	<del></del>
Sodium pentaborate	11139-65-4	NA 862	1347	Insecticide,	Inorganic
			1547	Plant Growth	Inorganic
<u> </u>				Regulator	
Sodium perborate	2092204	#####	3429	Insecticide	<del> </del>
Sodium perborate (NaBO3)	10486-00-7	11108	NA 115		Inorganic
tetrahydrate		11100	1177 113	Insecticide	Inorganic
Sodium permanganate	10101-50-5	NA 145	3430	N/A	<del></del>
Sodium peroxide (Na2(O2))	1313-60-6	63606	NA 526		Inorganic
		02000	NA 320	Microbiocide, Fungicide,	Inorganic
				Herbicide,	
	ļ	j		Rodenticide	
Sodium persulfate	7775-27-1	63603	2336	N/A	T
Sodium phosphate	7558-79-4	76403			Inorganic
	, ,		1190	pH Adjustment,	Inorganic
1		1	l	Fungicide,	
		1	[	Herbicide,	
Sodium phosphate, monobasic	7558-80-7	76409	3433	Microbiocide	<del></del>
			ردود	pH Adjustment, Fungicide,	Inorganic
1		ľ	ļ	Herbicide,	
				Microbiocide	
Sodium polysulfide	1344-08-7	6902	541		T
		0,02	271	Insecticide,	Inorganic
Sodium pyroarsenate	13464-42-1	13401	2864	Fungicide	
		13-101	2004	Wood	Inorganic-arsenic,
		1		Preservative,	Heavy metal
Sodium selenate	13410-01-0	72002	NA 672	Fungicide	
		.2002	11A 0/2	N/A	Inorganic

Chemical Name	CAS Number	U.S. EPA P	COAC	T =	
<u>Sastancar x tarric</u>	CAS Number	Code	CA Cher Code	u Use Type	Chemical Class
Sodium sesquicarbonate	533-96-0	73507	1292	pH Adjustment	<del> </del>
		,350,	1292	Fungicide,	Inorganic
· ·	1			Microbiocide,	
				Herbicide	
Sodium silicate	1344-09-8	72603	2865	Insecticide,	Inorganic
,	1			Adjuvant,	morganic
			ł	Fungicide,	
Sodium silicoaluminate	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Microbiocide	
Sodium silver thiosulfate	NA 1005	NA 868	2866	Adjuvant	Inorganic
Socium silver imosulfate	NA 1398	NA 197	NA 196	Herbicide	Inorganic-Silver,
Sodium sulfate	7757-82-6	5604	1.77		Heavy metal
Soutain surrate	//3/-62-0	5604	1532	Insecticide,	Inorganic
Sodium sulfide	1313-82-2	NA 214	NTA 212	Herbicide	
Sodium sulfite	7757-83-7	78203	NA 213	N/A	Inorganic
Sodium tetraborate (anhydrous)	1330-43-4	11112	1635 5054	Fungicide	Inorganic
(,,	2550-45-4	11112	3034	Insecticide, Herbicide,	Inorganic
				Molluscicide	
Sodium tetraborate	11130-12-4	NA 871	1808	Insecticide	Tnonessia
(pentahydrate)			1 2000	Insecticine	Inorganic
Sodium tetrathiocarbonate	7345-69-9	.######	2273	Fumigant,	Inorganic
		•		Fungicide,	morganic
0.1: .1:		·		Nematicide	
Sodium thioarsenate	17367-56-5	13507	NA 128	N/A	Inorganic-arsenic,
(Na3AsO3S) Sodium thiocyanate	540.50.5				Heavy metal
Sodium thiosulfate	. 540-72-7	68202	848	Herbicide	Inorganic
Sodium unosumate	7772-98-7	80104	332	Insecticide,	Inorganic
			İ	Fungicide,	
Sodium tripolyphosphate	7758-29-4	76404	1024	Herbicide	
Sulfur	7704-34-9	77501	560	pH Adjustment	Inorganic
	7704-54-5	77301	200	Fungicide,	Inorganic
Sulfur chloride	10025-67-9	NA 116	3461	Insecticide N/A	
Sulfur dichloride	10545-99-0	NA 915	3462	N/A	Inorganic
Sulfur dioxide	2024422	77601	561	Dessicant	Inorganic
Sulfuric acid	7664-93-9	78001	442	Herbicide,	Inorganic
				Dessicant,	Inorganic
				Fungicide,	
	ĺ		ļ	Microbiocide,	
Ch161 -1.1. · 1				pH Adjustment	
Sulfuryl chloride	7791-25-5	78002	NA 721	N/A	Inorganic
Sulfuryl fluoride Talc	2699-79-8	78003	618	Fumigant	Inorganic
Tetracopper calcium	14807-96-6	NA 923	2911	N/A	Inorganic
oxychloride	1336-15-8	23502	NA 187	Fungicide	Inorganic-Copper
Tetrapotassium pyrophosphate	7320-34-5	76400	1010		
	1320-34-3	76408	1918	pH Adjustment,	Inorganic
1				Fungicide,	
				Herbicide,	
Tetrasodium pyrophosphate	7722-88-5	76405	3474	Microbiocide pH Adjustment,	
			J7/7	Fungicide,	Inorganic
	İ			Herbicide,	
THE III				Microbiocide	ļ
Thallium(I) sulfate	7446-18-6	80001	NA 35	Rodenticide	Inorganic, Heavy
Titomium di	10.40				metal
Titanium dioxide	13463-67-7	NA 954	2942	N/A	Inorganic

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I I T	T-~
	<u>Grad Ivamour</u>	Code	Code	Use Type	Chemical Class
Titanium sulfate	13825-74-6	NA 111	3476	N/A	Inorganic
Tricopper dichloride	7076-63-3	#####	NA 152	Microbiocide	Dithiocarbamate,
dimethyldithiocarbamate		L			Inorganic-Copper
Tripotassium phosphate	7778-53-2	76407	1055	pH Adjustment	Inorganic
	Í			Fungicide,	' morganio
ł				Herbicide,	
Trico diamento de la constanta	5604.5		<u> </u>	Microbiocide	1
Trisodium phosphate	7601-54-9	76406	1579	pH Adjustment	Inorganic
				Fungicide,	
į				Herbicide,	
Urea	57-13-6	85702	662	Microbiocide	
	) 37-15-0	83702	002	Microbiocide,	Inorganic
Urea dihydrogen sulfate	21351-39-3	#####	2270	Fungicide Plant Growth	T
			2270	Regulator,	Inorganic
				Herbicide	
Vermiculite	NA 778	NA 140	2983	N/A	Inorganic
Water	NA 557	NA 101	2987	Solvent	Inorganic
Zinc	7440-66-6	#####	2310	Herbicide	Inorganic-Zinc
Zinc 2,4,5-trichlorophenate	136-24-3	64221	NA 546	N/A	Chlorinated Phenol,
7: 0 11 11					Inorganic-Zinc
Zinc 2-ethyl hexoate	136-53-8	41203	3509	N/A	Inorganic-Zinc
Zinc 2-pyridinethiol-1-oxide	13463-41-7	88002	2128	Microbiocide	Inorganic-Zinc
Zinc 8-quinolinolate	13978-85-3	24005	NA 196	Fungicide,	Inorganic-Zinc
Zinc abietate	(700 76 1			Microbiocide	
Zinc arsenate	6798-76-1 13464-44-3	NA 112	3506	N/A	Inorganic-Zinc
Zine dischate	13404-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
		1		Insecticide,	Heavy metal,
Zinc arsenite	28837-97-0	13604	NA 130	Rodenticide	Inorganic-Zinc
	2003, 37-0	13004	1VA 150	Herbicide, Insecticide,	Inorganic-Arsenic,
	ļ			Rodenticide	Inorganic-Zinc, Heavy metal
Zinc bacitracin	1405-89-6	6309	NA 87	Microbiocide	Inorganic-Zinc
Zinc carbonate	3486-35-9	NA 102	3507	N/A	Inorganic-Zinc
Zinc chloride	7646-85-7	87801	624	Microbiocide	Inorganic-Zinc
Zinc dehydroabietylammonium	53404-92-5	4211	NA 75	Fungicide,	Inorganic-Zinc
2-ethylhexanoate				Microbiocide	morganic-Zinc
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Soap, Inorganic-Zinc
}				Adjuvant,	., 0 == ====
	1			Fungicide,	
Zinc fluosilicate	16871-71-9	75307	1010	Insecticide	
Zinc formate	557-41-5	87802	1019	Insecticide	Inorganic-Zinc
Zinc hydroxide	20427-58-1	88501	NA 838	N/A	Inorganic-Zinc
Zinc isodecanoate	30304-30-4	41222	3510 NA 355	N/A	Inorganic-Zinc
Zinc isononanoate	5398-80-6	41212	NA 355 NA 353	N/A	Inorganic-Zinc
Zinc isooctanoate	84082-93-9	41205	NA 353	N/A N/A	Inorganic-Zinc
Zinc mercury chromate	22323-45-1	21004	NA 170		Inorganic-Zinc
,		21004	NA 170	Fungicide	Inorganic-Mercury,
İ		ļ	ł	İ	Inorganic- chromium(VI),
	1	1			Inorganic-Zinc,
7				į	Heavy metal
Zinc naphthenate	12001-85-3	88301	1111	Wood	Inorganic-Zinc
İ		ŀ	1	Preservative,	
ł			1	Insecticide,	
			I	ungicide, Dog	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	XI. (2)	
	<u> </u>	Code	Code	<u>Use Type</u>	Chemical Class
				and Cat	
				Repellent	
Zinc neodecanoate	27253-29-8	97502 .	NA 853	N/A	Inorganic-Zinc
Zinc oxide	1314-13-2	88502	666	Fungicide, Adjuvant	Inorganic-Zinc
Zinc petroleum (C20- C30)sulfonate	68989-17-3	88503	NA 841	N/A	Inorganic-Zinc
Zinc phenol sulfonate	127-82-2	89002	NA 842	N/A	Inorganic-Zinc
Zinc phosphide	1314-84-7	88601	626	Rodenticide	Inorganic-Zinc
Zinc resinate	9010-69-9	77001	NA 712	N/A	Inorganic-Zinc
Zinc silicate	NA 1318	8103	NA 176	Microbiocide	Inorganic-Zinc
Zinc stearate	557-05-1	77002	3511	N/A	Inorganic-Zinc
Zinc sulfate	7733-02-0	89001	667	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, anhydrous	7733-02-0	89001	1852	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, basic	68813-94-5	89101	NA 843	N/A	Inorganic-Zinc
Zinc sulfate, monohydrate	7446-19-7	#####	2995	Herbicide	Inorganic-Zinc
Zinc trichlorophenate	30143-22-7	64213	NA 543	Microbiocide	Chlorinated Phenol,
77.		·			Inorganic-Zinc
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate, Inorganic-Zinc
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate, Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide,	Dithiocarbamate,
				Microbiocide,	Inorganic-Zinc
				Dog and Cat	
Ziram, cyclohexylamine	16500 50 0			Repellent	
complex	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
Complex			ļ	Repellent,	Inorganic-Zinc
(3-Ethoxypropyl)mercury	6012-84-6	#####	NA 147	Fungicide Fungicide	
bromide			142 147	rungicide	Organomercury, Heavy metal
(3-Hydroxy-2-	69653-69-6	######	NA 153	N/A	Organomercury,
methoxypropyl)mercuric					Heavy metal
acetate 10,10'-Oxybisphenoxyarsine	50.06.6				
10,10-Oxyoisphenoxyarsine	58-36-6	12601	1402	Fungicide,	Organoarsenic,
2-(acetoxymercuri)ethanol	4665-55-8	41501	NA 356	Microbiocide	Heavy metal
3-(Hydroxymercuri)-4-nitro-o-				N/A	Organomercury, Heavy metal
phenol, sodium salt	53404-55-0	52604	NA 447	Microbiocide	Organomercury, Heavy metal
Ammonium arsenate	7784-44-3	13601	2380	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Ammonium dichromate	2149701	60205	NTA 507	Rodenticide	
dicinomate	2143/01	68305	NA 607	Wood	Inorganic-
			]	Preservative	Chromium(VI),
Anilinocadmium dilactate	19651-91-3	64601	NA 548	N/A	Heavy metal
			- 10.2 2-10	NA	Inorganic-Cadmium, Heavy metal
Arsenic	7440-38-2	NA 121	710	Herbicide,	Inorganic-arsenic,
	į		j	Insecticide,	Heavy metal
A				Rodenticide	
Arsenic acid	7778-39-4	6801	40	Herbicide,	Inorganic-arsenic,
		1	ŀ	Insecticide,	Heavy metal
	<del>-:</del> L		Ł	Rodenticide	

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
1: 10:1		<u>Code</u>	<u>Code</u>		Gardinoai Class
Arsenic disulfide	56320-22-0	6901	NA 98	Herbicide,	Inorganic-arsenic,
			1	Insecticide,	Heavy metal
A				Rodenticide	:
Arsenic pentoxide	1303-28-2	6802	631	Fungicide,	Inorganic-arsenic,
Í				Insecticide,	Heavy metal
		l	ŀ	Rodenticide,	.
A ====================================			<u> </u>	Herbicide	1
Arsenic sulfide	12612-21-4	6901	NA 99	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenic trioxide	<del> </del>			Rodenticide	
Atseme moxide	1327-53-3	7001	42	Herbicide,	Inorganic-arsenic,
			1	Insecticide,	Heavy metal
Arsenic trisulfide				Rodenticide	
Arsenic trisuinde	1303-33-9	6901	NA 97	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenosobenzene				Rodenticide	
Arsenosobenzene	637-03-6	7101	NA 100	N/A	Organoarsenic,
Amonio anid (A				}	Heavy metal
Arsonic acid, (4-aminophenyl)-	98-50-0	#####	NA 109	N/A	Organoarsenic,
Amaria					Heavy metal
Arsonic acid, ammonium salt	58829-95-1	#####	NA 105	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
	1			Wood	
<u> </u>				Preservative	
Azocyclotin	41083-11-8	<del>}////////</del>	2408	Insecticide	Organotin, Heavy
Posis his at 11					metal
Basic bismuth gallate	99-26-3	98601	NA 860	N/A	Heavy metal
Basic copper arsenate	16102-92-4	#####	NA 132	Herbicide,	Inorganic-arsenic,
			i	Insecticide,	Heavy metal,
D'-11-'1'				Rodenticide	Inorganic-Copper
Basic lead silicate	53466-66-3	48003	NA 417	N/A	Inorganic-Lead,
Dia (tuitain 1st ) 1:					Heavy metal
Bis (tributyltin) adipate	7437-35-6	83117	1990	Antifoulant,	Organotin, Heavy
Dia (4.7) - 4.11 \ 1.01				Microbiocide	metal
Bis (tributyltin) sulfide	4808-30-4	83113	1886	Antifoulant,	Organotin, Heavy
Dia (4.1. + 14: ) 10				Microbiocide	metal
Bis (tributyltin) sulfone	NA 970	NA 476	1665	Antifoulant,	Organotin, Heavy
Dis/A.T 1/1				Microbiocide	metal
Bis(tributyltin) dodecenylsuccinate	12379-54-3	83101	NA 824	Antifoulant,	Organotin, Heavy
				Microbiocide	metal
Bis(tributyltin) salicylate	22330-14-9	83102	5074	Antifoulant,	Organotin, Heavy
Distant In China				Microbiocide	metal
Bis(tributyltin) succinate	4644-96-6	83103	74	Antifoulant,	Organotin, Heavy
District No. 10				Microbiocide	metal
Bis(tributyltin) sulfosalicylate	4419-22-1	83104	NA 825	Antifoulant,	Organotin, Heavy
Di di i			f	Microbiocide	metal
Bis(tripropyltin) oxide	1067-29-4	83201	NA 829	Microbiocide,	Organotin, Heavy
				Fungicide	metal
Cacodylic acid	75-60-5	12501	32	Herbicide,	Organoarsenic,
			1	Defoliant	Heavy metal
Cadmium	7440-43-9	NA 460	2438	N/A	Inorganic-Cadmium,
			- [	- 114 %	Heavy metal
Cadmium carbonate	513-78-0	12901	93	N/A	Inorganic-Cadmium,
				*44.7	Heavy metal
Cadmium chloride	10108-64-2	12902	94	N/A	
				41/41	Inorganic-Cadmium, Heavy metal
					ileavy metal

Chaminal Name	01017		T		
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
		Code	Code		
Cadmium cocoate	72869-63-7	NA 459	3085	N/A	Inorganic-Cadmium, Heavy metal
Cadmium oxide	1306-19-0	#####	NA 130	N/A	Inorganic-Cadmium,
Cadmium perborate	NA 969	NA 461	3086	N/A	Heavy metal Inorganic-Cadmium,
Cadmium sebacate	939499	12903	699	N/A	Heavy metal Inorganic-Cadmium,
Cadmium succinate	141-00-4	12904	92	N/A	Heavy metal Inorganic-Cadmium,
Cadmium sulfate	10124-36-4	12905	NA 123	N/A	Heavy metal Inorganic-Cadmium,
Cadmium yellow pigments	NA 967	NA 448	2439	N/A	Heavy metal Inorganic-Cadmium, Heavy metal
Calcium acid methanearsonate	5902-95-4	13806	101	Herbicide,	Organoarsenic,
Calcium arsenate	7778-44-1	13501	96	Defoliant	Heavy metal
:		13301	90	Herbicide, Insecticide, Rodenticide, Molluscicide	Inorganic-arsenic, Heavy metal
Calcium arsenite	53404-59-4	13602	NA 129	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Calcium methanearsonate	6423-72-9	13809	NA 136	Herbicide, Defoliant	Organoarsenic, Heavy metal
Calcium propanearsonate	126-94-3	13801	NA 133	Herbicide, Defoliant	Organoarsenic,
Calomel	10112-91-1	52201	100	Fungicide	Heavy metal Inorganic-Mercury,
Chloromethoxy propyl mercuric acetamide	1319-86-4	18401	887	N/A	Heavy metal Organomercury,
Chromated zinc chloride	NA 1026	87801	1187	Insecticide, Herbicide,	Heavy metal Inorganic- Chromium(VI),
				Microbiocide	Inorganic-Zinc, Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood Preservative	Inorganic- Chromium(VI),
Chromic acid	7738-94-5	21101	1188	Wood	Heavy metal
		21101	1100	Preservative	Inorganic- Chromium(VI), Heavy metal
Chromic oxide	1308-38-9	21103	NA 173	Wood Preservative	Inorganic- Chromium(VI),
Copper arsenate	10103-61-4	22801	NA 178	Herbicide, Insecticide,	Heavy metal Inorganic-arsenic, Heavy metal,
Copper arsenite	10290-12-7	22401	NA 177	Rodenticide Herbicide,	Inorganic-Copper Inorganic-arsenic,
		1		Insecticide, Rodenticide	Heavy metal, Inorganic-Copper
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide, Wood Preservative	Inorganic- Chromium(VI), Inorganic-Zinc, Heavy metal,
Crag turf fungicide 531 (Cd- Cu-Ca-Zn-Chromate)	12001-20-6	21006	NA 171	Fungicide	Inorganic-Copper Inorganic-Cadmium,
	<u>-</u>				Inorganic-

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Ol
		Code	Code	OSC Type	Chemical Class
		ļ			Chromium(VI),
·					Inorganic-Zinc,
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Heavy metal
1		22001	2403	Preservative	Inorganic-arsenic, Heavy metal,
				210001744170	Inorganic-Copper
Cyhexatin	13121-70-5	######	1638	Insecticide	Organotin, Heavy
Decafentin	15650 20 7		<u> </u>		metal
Becarentin	15652-38-7	#####	NA 132	N/A	Organotin, Heavy
Di(phenylmercuri) ammonium	18467-88-4	66002	NA 551	N/A	metal Organomercury,
propionate				1772	Heavy metal
Di(phenylmercuric) dodecenyl	27236-65-3	66001	501	Microbiocide,	Organomercury,
succinate Dibutyltin dichloride	692 10 1	00100		Fungicide	Heavy metal
Dioutyitm dicinoride	683-18-1	83123	NA 828	N/A	Organotin, Heavy
Dodecyl ammonium	53404-47-0	13805	857	Herbicide,	metal
methanearsonate		25005	037	Defoliant	Organoarsenic, Heavy metal
DSMA	144-21-8	13802	251	Herbicide,	Organoarsenic,
Ethylene oxide condensate of	5550 05			Defoliant	Heavy metal
abietylamine, tributyltin	56573-85-4	NA 126	1864	Antifoulant,	Organotin, Heavy
chloride				Microbiocide	metal
Ethylmercuric phosphate	2235-25-8	41505	357	N/A	Organomercury,
				14721	Heavy metal
Ethylmercurichlorendiimide	2597-93-5	45301	NA 383	N/A	Organomercury,
Ethylmercurithiosalicylic acid	148-61-8	78000	371 504		Heavy metal
Dailymercuritmosancyne acid	148-01-8	78902	NA 724	Fungicide	Organomercury,
Ethylmercury 2,3-	2597-92-4	41507	NA 361	Fungicide	Heavy metal
dihydroxypropylmercaptide			1112501	1 dilgicide	Organomercury, Heavy metal
Ethylmercury acetate	109-62-6	41502	NA 357	Fungicide	Organomercury,
Ethylmercury bromide	107.26.6	20000		**	Heavy metal
Emymicically bronnide	107-26-6	#####	NA 149	Fungicide	Organomercury,
Ethylmercury chloride	107-27-7	41503	NA 358	Fungicide	Heavy metal
		12505	142 330	1 ungicide	Organomercury, Heavy metal
Ethylmercury	22232-28-6	41504	NA 359	Microbiocide	Organomercury,
pentachlorophenate		1			Chlorinated Phenol,
Fatty acid* - silver complex	24927-67-1	72505	NTA 675	34. 1	Heavy metal
*(100%·C8)	24927-07-1	72303	NA 675	Microbiocide, Fungicide,	Inorganic-Silver,
		ļ		Herbicide	Heavy metal
Fenbutatin-oxide	13356-08-6	#####	1876	Insecticide	Organotin, Heavy
Parkin I					metal
Fentin hydroxide	76-87-9	83601	599	Fungicide,	Organotin, Heavy
			1	Molluscicide,	metal
Hydroxymercuri-o-nitrophenol	30284-78-7	52601	2606	Herbicide Microbiocide	
<u></u>		32001	2000	Micropiocide	Organomercury, Heavy metal
Hydroxymercuri-o-nitrophenol,	1300-34-1	52602	NA 445	Microbiocide	Organomercury,
sodium salt Hydroxymercurichlorophenols	52466.00.6	4606			Heavy metal
	53466-93-6	46002	NA 391	Microbiocide	Organomercury,
Hydroxymercuriphenyl	53466-95-8	46003	NA 392	Microbiocide	Heavy metal
ammonium triethanolamine		-10003	11T 374	Micropiocide	Organomercury, Heavy metal
					ileavy illetal

Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
Hydroxymercury cresol	12379-66-7	46001	NA 390	Minnething	T
				Microbiocide	Inorganic-Mercury, Heavy metal, Phenols
Lactoxymercuriphenyl ammonium lactate	53466-98-1	51901	NA 429	Microbiocide	Organomercury, Heavy metal
Lauric acid, barium cadmium salt	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium, Heavy metal
Lead	7439-92-1	NA 134	2638	N/A	Inorganic-Lead,
Lead acetate	301-04-2	48001	NA 415	N/A	Heavy metal Inorganic-Lead,
Lead arsenate	7784-40-9	13503	353	TT-1::1	Heavy metal
	770 <del>7-1</del> 0-5	13303	333	Herbicide, Insecticide,	Inorganic-arsenic,
				Rodenticide	Inorganic-lead,
Lead arsenate, basic	1327-31-7	13502	354	Herbicide,	Heavy metal Inorganic-arsenic,
		10002	334	Insecticide,	Inorganic-lead,
				Rodenticide	Heavy metal
Lead metasilicate	NA 938	NA 138	1106	N/A	Inorganic-Lead,
1				- "	Heavy metal
Lead monoxide	10190-55-3	NA 123	1271	N/A	Inorganic-Lead,
					Heavy metal
Lead naphthenate	61790-14-5	48004	3296	N/A	Inorganic-Lead,
					Heavy metal
Litharge	1317-36-8	48002	NA 416	N/A	Inorganic-Lead,
					Heavy metal
Magnesium arsenate	10103-50-1	13504	NA 126	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Manganese arsenate	7704 00 7			Rodenticide	
Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic-arsenic,
				Insecticide, Rodenticide	Heavy metal
Mercuric acetate	1600-27-7	52104	NA 441	N/A	Inorganic-Mercury, Heavy metal
Mercuric chloride	7487-94-7	52001	372	Fungicide	Inorganic-Mercury,
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Heavy metal
dithiocarbamate		3.000	,0)	Micropiocide	Inorganic-Mercury,
			İ		Heavy metal, Dithiocarbamate
Mercuric iodide	7774-29-0	52003	NA 438	N/A	Inorganic-Mercury,
				1771	Heavy metal
Mercuric oleate	1191-80-6	52105	3276	N/A	Inorganic-Mercury,
					Heavy metal
Mercuric oxide	21908-53-2	52102	955	Fungicide	Inorganic-Mercury, Heavy metal
Mercury	7439-97-6	52301	NA 26	N/A	Inorganic-Mercury, Heavy metal
Mercury naphthenate	1336-96-5	52101	NA 439	Wood	Inorganic-Mercury,
	I			Preservative,	Heavy metal
			-	Insecticide,	ileavy illetai
				Fungicide	ł
Mercury pentanedione	14024-55-6	52103	NA 440	N/A	Inorganic-Mercury,
					Heavy metal
Mercury phenate	588-66-9	52106	NA 442	N/A	Inorganic-Mercury,
<del></del>					Heavy metal
Metallic silver	7440-22-4	72501	2125	Microbiocide,	Heavy metal Inorganic-Silver,

Chemical Name	CAS Number	U.S. EPA PC	CA Ch	TT =	T
	CAS INITIOEI	Code	CA Chem Code	<u>Use Type</u>	Chemical Class
Methane arsonic acid (MAA)	124-58-3	#####	NA 27	N/A	Organoarsenic, Heavy metal
Methoxyethylmercury acetate	151-38-2	41508	NA 362	Fungicide	Organomercury, Heavy metal
Methylenebis(thiocyanate) with TBTO	76397-81-4	81408	NA 785	Antifoulant, Microbiocide	Organotin, Heavy
Methylmercurichlorendimide	5902-79-4	45302	NA 384	N/A	Organomercury, Heavy metal
Methylmercury 2,3- dihydroxypropylmercaptide	2597-95-7	51905	NA 433	Fungicide	Organomercury, Heavy metal
Methylmercury 8- hydroxyquinolinate	86-85-1	51902	NA 430	Fungicide	Organomercury, Heavy metal
Methylmercury acetate	108-07-6	51903	NA 431	Fungicide	Organomercury, Heavy metal
Methylmercury benzoate	3626-13-9	51904	NA 432	Fungicide	Organomercury, Heavy metal
Methylmercury dicyano diamide	502-39-6	51909	454	Fungicide	Organomercury, Heavy metal
Methylmercury hydroxide	1184-57-2	51906	NA 434	Fungicide	Organomercury, Heavy metal
Methylmercury nitrile	2597-97-9	51907	NA 435	Fungicide	Organomercury, Heavy metal
Methylmercury propionate	1460883	51908	NA 436	Fungicide	Organomercury, Heavy metal
Monoammonium methanearsonate	2321-53-1	13808	NA 135	Herbicide, Defoliant	Organoarsenic, Heavy metal
Monotributyltin salicylate	4342-30-7	83122	NA 827	Antifoulant, Microbiocide	Organotin, Heavy metal
MSMA	2163-80-6	13803	34	Herbicide, Defoliant	Organoarsenic, Heavy metal
N-(Ethylmercury)-p- toluenesulfonanilide	517-16-8	41506	NA 360	Fungicide	Organomercury, Heavy metal
N-(Phenylmercuri) urea	2279-64-3	#####	NA 160	Herbicide	Organomercury, Heavy metal
N- (Phenylmercuri)ethylenediamin e	5980-82-5	66009	NA 556	Fungicide	Organomercury, Heavy metal
o-(Chloromercuri)phenol	90-03-9	#####	NA 135	Microbiocide	Organomercury, Heavy metal
o-(Hydroxymercuri)benzoic acid, cyclic anhydride	5722-59-8	52603	NA 446	Microbiocide	Organomercury, Heavy metal
Octylammonium methanearsonate	6379-37-9	13804	27	Herbicide, Defoliant	Organoarsenic, Heavy metal
p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride	53433-01-5	52002	NA 437	Microbiocide	Inorganic-Mercury, Heavy metal
Paris green	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal
Phenarsazine chloride	578-94-9	63901	1342	N/A	Organoarsenic, Heavy metal
Phenarsazine oxide	4095-45-8	12602	NA 122	N/A	Organoarsenic, Heavy metal
Phenylmercuriammonium propionate	53404-68-5	66023	NA 567	Fungicide	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PO	CA Chen	Use Type	T (1) 1 1 1 1 1
		<u>Code</u>	Code	Ose I ype	Chemical Class
Phenylmercuric 2- ethylhexanoate	13302-00-6	66024	NA 568	Fungicide, Microbiocide	Organomercury,
Phenylmercuric borate	6273-99-0	66005	NA 552	Fungicide,	Organomercury,
Phenylmercuric carbonate	53404-69-6	66006	NA 553	Microbiocide Fungicide,	Heavy metal Organomercury,
Phenylmercuric chloride	100-56-1	66007	NA 554	Microbiocide Fungicide,	Heavy metal
Phenylmercuric	32407-99-1		<u> </u>	Microbiocide	
dimethyldithiocarbamate		66008	NA 555	Microbiocide, Fungicide	Organomercury, Dithiocarbamate, Heavy metal
Phenylmercuric formamide	22894-47-9	66010	NA 557	Fungicide, Microbiocide, Herbicide	Organomercury
Phenylmercuric hydroxide	100-57-2	66011	NA 558	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric lactate	122-64-5	66012	1535	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium acetate	5822-97-9	66013	NA 559	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium lactate		66014	NA 560	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric naphthenate	31632-68-5	66015	NA 561	Wood Preservative, Insecticide, Fungicide	Organomercury, Heavy metal
Phenylmercuric nitrate	55-68-5	66016	477	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric octanoate	13864-38-5	66025	NA 569	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric oleate	104-60-9	66022	853	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric propionate	103-27-5	66018	NA 563	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric salicylate	28086-13-7	66019	NA 564	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric thiocyanate	16751-55-6	66020	NA 565	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
henylmercuritriethanolammon ium lactate	23319-66-6	66021	NA 566	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercury 8- hydroxyquinolinolate	14354-56-4	66017	NA 562	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercury benzoate	94-43-9	51900	NA 428	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Class
		Code	Code	OSC TYPE	Chemical Class
PMA	62-38-4	66003	491	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
PMA, other related	NA 1106	NA 164	90491	Fungicide, Herbicide, Microbiocide	Organomercury, Heavy metal
PMAA	53404-67-4	66004	492	Fungicide, Microbiocide	Organomercury, Heavy metal
Poly (methylmethacrylate-co- tributyltin methacrylate)	26354-18-7	83119	5075	Antifoulant, Microbiocide	Organotin, Heavy
Potassium arsenite	10124-50-2	13605	NA 131	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Potassium arsenite	13464-35-2	13605	NA 132	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Potassium chromate	7789-00-6	68301	700	Wood Preservative	Inorganic- Chromium(VI), Heavy metal
Potassium hexafluoroarsenate	17029-22-0	#####	NA 160	N/A	Inorganic-arsenic, Heavy metal
Potassium mercuric iodide	7783-33-7	52107	NA 443	N/A	Inorganic-Mercury, Heavy metal
Pyridylmercuric acetate	1334-77-6	69501	NA 661	N/A	Organomercury, Heavy metal
Pyridylmercuric chloride	1334-75-4	69502	NA 662	N/A	Organomercury, Heavy metal
Silver acetate	563-63-3	72507	NA 676	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver carbonate	534-16-7	72509	NA 678	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver chloride	7783-90-6	72506	2324	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver copper zeolite	130328-19-7	#####	NA 110	Microbiocide	Inorganic-Silver, Heavy metal, Inorganic-Copper
Silver fluoride	7775-41-9	72502	NA 674	Microbiocide, Fungicide, Herbicide	Inorganic-Copper Inorganic-Silver, Heavy metal
Silver iodide, colloidal	7783-96-2	NA 124	1556	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver nitrate	7761-88-8	72503	2856	Microbiocide, Fungicide, Herbicide, Plant Growth Regulator	Inorganic-Silver, Heavy metal
Silver orthophosphate (Ag3PO4)	7784-09-0	72510	NA 679	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	1301-96-8	######	NA 111	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	155645-89-9	#####	NA 111	Microbiocide,	Inorganic-Silver,

Chemical Name	CAS Number	U.S. EPA PO	CA Chem	I I Too To	
	<u>Gris ivamoci</u>	Code	Code Code	Use Type	Chemical Class
				Fungicide, Herbicide	Heavy metal
Silver sodium hydrogen zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3)	NA 1166	72560	NA 164	Microbiocide	Inorganic-Silver, Heavy metal
Silver thiocyanate	1701-93-5	68203	NA 606	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver thiuronium acrylate co- polymer	53404-00-5	72701	NA 681	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver zeolite	130328-18-6	######	NA 125	Microbiocide	Inorganic-Silver, Heavy metal
Silver zinc zeolite	130328-20-0	######	NA 111	Microbiocide	Inorganic-Silver, Inorganic-Zinc, Heavy metal
Silver, ionic	14701-21-4	NA 169	5150	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Sodium arsenate	13464-38-5	13505	283	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Sodium arsenite	7784-46-5	13603	534	Herbicide, Insecticide, Rodenticide, Fungicide	Inorganic-arsenic, Heavy metal
Sodium cacodylate	124-65-2	12502	1673	Herbicide, Defoliant, Rodenticide	Organoarsenic, Heavy metal
Sodium chromate	2144646	68303	1241	Wood Preservative	Inorganic- Chromium(VI), Heavy metal
Sodium dichromate	10588-01-9	68304	3395	Wood Preservative	Inorganic- Chromium(VI), Heavy metal
Sodium ethylmercurithiosalicylate	54-64-8	78901	NA 723	N/A	Organomercury, Heavy metal
Sodium pyroarsenate	13464-42-1	13401	2864	Wood Preservative, Fungicide	Inorganic-arsenic, Heavy metal
Sodium silver thiosulfate	NA 1398	NA 197	NA 196	Herbicide	Inorganic-Silver, Heavy metal
Sodium thioarsenate (Na3AsO3S)	17367-56-5	13507	NA 128	N/A	Inorganic-arsenic, Heavy metal
Thallium(I) sulfate	7446-18-6	80001	NA 35	Rodenticide	Inorganic, Heavy metal
Tolylmercuric acetate	1300-78-3	#####	NA 150	Fungicide	Organomercury, Heavy metal
Tri-n-butyltin maleate	14275-57-1	83118	2185	Antifoulant, Microbiocide	Organotin, Heavy metal
Tributyltin acetate	56-36-0	83105	2097	Antifoulant, Microbiocide	Organotin, Heavy metal
Tributyltin acrylate	13331-52-7	83121	NA 826	Antifoulant, Microbiocide	Organotin, Heavy metal
Tributyltin benzoate	4342-36-3	83106	1114	Antifoulant, Microbiocide	Organotin, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	77 0	T
	CABINITION	Code	<u>CA Chem</u> <u>Code</u>	Use Type	Chemical Class
Tributyltin chloride	1461-22-9	83107	1891	Antifoulant	Organotin, Heavy
		,	10,1	Microbiocide	metal
Tributyltin chloride complex of	56573-85-4	83108	1412	Antifoulant,	Organotin, Heavy
ethylene oxide condensate of				Microbiocide	metal
abietylamine	<u> </u>			·	
Tributyltin chloride,	NA 1012	NA 970	938	Antifoulant,	Organotin, Heavy
myristylamine salt				Microbiocide	metal
Tributyltin fluoride	29131	83112	1030	Antifoulant,	Organotin, Heavy
				Microbiocide,	metal
Tributyltin isopropyl succinate	53404-82-3	83115	1115	Fungicide	
l succession is a succession of the succession o	33404-82-3	65115	1113	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin linoleate	24124-25-2	83109	1116	Antifoulant,	metal
		03103	1110	Microbiocide	Organotin, Heavy metal
Tributyltin methacrylate	2155-70-6	83120	2179	Antifoulant,	Organotin, Heavy
				Microbiocide	metal
Tributyltin monopropylene	53466-85-6	83110	1985	Antifoulant,	Organotin, Heavy
glycol maleate				Microbiocide	metal
Tributyltin neodecanoate	28801-69-6	83111	1035	Antifoulant,	Organotin, Heavy
Tributyltin oxide	56.25.0			Microbiocide	metal
i i i i i i i i i i i i i i i i i i i	56-35-9	83001	569	Antifoulant,	Organotin, Heavy
				Microbiocide,	metal
		İ		Molluscicide,	
Tributyltin resinate	13387-91-2	83114	1732	Fungicide	
	15507-51-2	65114	1/32	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin sulfide	4808-30-4	83113	1352	Antifoulant,	metal Organotin, Heavy
				Microbiocide	metal
Triethanolamine cacodylate	69484-14-6	12503	NA 121	Herbicide,	Organoarsenic,
Triethanolamine	5002.07.6			Defoliant	Heavy metal
methanearsonate	5902-97-6	13807	NA 134	Herbicide,	Organoarsenic,
Trimethyltin chloride	1066-45-1	#####	NA 161	Defoliant	Heavy metal
	1000-45-1	<del>1111111111</del>	NA 101	N/A	Organotin, Heavy
Triphenylbismuthine	603-33-8	82801	NA 821	N/A	metal Heavy metal
Triphenylbismuthine dichloride	594-30-9	82802	NA 822	· N/A	Heavy metal
Triphenyltin acetate	900-95-8	#####	NA 153	Fungicide,	Organotin, Heavy
				Herbicide	metal
Triphenyltin chloride	639-58-7	#####	NA 153	N/A	Organotin, Heavy
Trial His G					metal
Triphenyltin fluoride	379-52-2	83602	2212	Antifoulant	Organotin, Heavy
Tripropyltin methacrylate	4154-35-2	83202	NA 830	N/A	metal
	125-1-55-2	83202	IVA 630	N/A	Organotin, Heavy metal
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
1	1			Insecticide,	Heavy metal,
7:				Rodenticide	Inorganic-Zinc
Zinc arsenite	28837-97-0	13604	NA 130	Herbicide,	Inorganic-Arsenic,
j			İ	Insecticide,	Inorganic-Zinc,
Zinc mercury chromate	22323-45-1	21004	374 170	Rodenticide	Heavy metal
- moremy chromate	22323-43-1	21004	NA 170	Fungicide	Inorganic-Mercury,
					Inorganic-
1		1			chromium(VI),
		1		1	Inorganic-Zinc, Heavy metal
Ammonium arsenate	7784-44-3	13601	2380	Herbicide,	Inorganic-arsenic,
					Troigning-arsemic,

Arsenic	Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Arsenic acid 77440-38-2 NA 121 710 Herbicide, Insercicide, Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Insercicide, Rodenticide Heavy metal Rodenticide Rodenticide Heavy metal Rodenticide Rodenticide Heavy metal Rodenticide Rodenticide Heavy metal Rodenticide, Insercicide, Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Heavy metal Rodenticide Herbicide Rodentic			Code	Code		
Arsenic acid	·	ŀ				Heavy metal
Arsenic acid 7778-39-4 6801 40 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Insecticide, Insecticide, Insecticide, Rodenticide Rodenticide Insecticide, Insecticide, Rodenticide Rodenticide Rodenticide Insecticide, Rodenticide Rodentici	Arronio	7440 20 2	DTA 101	710		<del></del>
Arsenic disulfide   56320-22-0   6901   NA 98   Herbicide, Insecticide, Rodenticide   Heavy metal   Herbicide, Rodenticide   Heavy metal   Herbicide, Rodenticide   Heavy metal   Herbicide, Rodenticide   Heavy metal   Herbicide, Rodenticide   Heavy metal   Herbicide, Rodenticide   Heavy metal   Herbicide, Rodenticide   H	Aiseille	/440-38-2	NA 121	710	,	
Arsenic disulfide  Arsenic disulfide  Arsenic disulfide  Arsenic disulfide  Arsenic disulfide  Arsenic disulfide  Arsenic disulfide  Arsenic pentoxide  1303-28-2  6802  6802  631  Fungicide, Incagnic-arsenic, Heavy metal Rodenticide  Arsenic pentoxide  1303-28-2  6802  6802  631  Fungicide, Incagnic-arsenic, Heavy metal Rodenticide, Heavy metal Rodenticide, Herbicide, Insecticide, Rodenticide, Rodenticide  Arsenic trioxide  12612-21-4  6901  Arsenic trioxide  1327-53-3  7001  42  Herbicide, Insecticide, Rodenticide  Arsenic trisulfide  1303-33-9  6901  NA 97  Herbicide, Insecticide, Rodenticide  Arsenic trisulfide  Arsenic trisulfide  1303-33-9  6901  NA 170  Herbicide, Insecticide, Rodenticide  Arsenic trisulfide  Arsenic trisulfide  16102-92-4  #####  NA 105  Herbicide, Insecticide, Rodenticide  Freservative  Basic copper arsenate  16102-92-4  #####  NA 132  Herbicide, Insecticide, Rodenticide  Calcium arsenate  7778-44-1  13501  96  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Heavy metal  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Rodenticide  Herbicide, Rodenticide  Herbicide, Insecticide, Rodenticide  Herbicide, Rodenticide  Herbicide, Rodenticid						Heavy metal
Arsenic disulfide 56320-22-0 6901 NA 98 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide, Rodenticide Rodenticide, Rodenticide Rodenticide, Rodenticide Rodenticide Rodenticide, Rodenticide Rodentici	Arsenic acid	7779 20 4	6901	40		
Arsenic disulfide 56320-22-0 6901 NA 98 Herbicide, Insecticide, Rodenticide (Rodenticide) Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal (Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal) Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Inorganic	Alseine acid	1110-39-4	9901	40		
Arsenic disulfide 56320-22-0 6901 NA 98 Herbicide, Insecticide, Rodenticide Rodenticide (Rodenticide) Inorganic-arsenic, Insecticide, Rodenticide (Rodenticide) Herbicide (Herbicide) Herbicide (Herbicide) Inorganic-arsenic, Heavy metal (Heavy metal) Rodenticide (Herbicide) (Herbicide) (Heavy metal) Rodenticide (Herbicide) (Heavy metal) Rodenticide (Heavy metal) (He						Heavy metal
Arsenic pentoxide 1303-28-2 6802 631 Fungicide, Insecticide, Rodenticide Insecticide, Insecticide, Insecticide, Rodenticide Insecticide, Rodentici	Arsenic disulfide	56320-22-0	6001	NIA OS		
Arsenic pentoxide 1303-28-2 6802 631 Fungicide, Insecticide, Rodenticide, Heavy metal Reavy metal Plance of the program of the	1 abome distilled	30320-22-0	0901	NA 96		
Arsenic pentoxide 1303-28-2 6802 631 Fungicide, Insecticide, Rodenticide, Rodenticide, Herbicide, Insecticide, Rodenticide, Rodenticide, Insecticide, Rodenticide, Rodenticide			ļ			Heavy metal
Arsenic sulfide 12612-21-4 6901 NA 99 Herbicide, Insecticide, Rodenticide Rodenticide Rodenticide Insecticide, Insecticide, Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Insecticide, Rodenticide R	Arsenic pentoxide	1303-28-2	6802	631		T
Arsenic sulfide 12612-21-4 6901 NA 99 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Insecticide, Rodent	1		0002	051		
Arsenic sulfide 12612-21-4 6901 NA 99 Herbicide, Insecticide, Rodenticide Rodenticide  Arsenic trioxide 1327-53-3 7001 42 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Rodenticide Rodenticide (Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Rodenticide (Insecticide, Insecticide, Rodenticide Rodenticide Rodenticide)  Arsenic trioxide 1303-33-9 6901 NA 97 Herbicide, Insecticide, Rodenticide Rodenticide (Insecticide, Rodenticide, Rodenticide, Rodenticide Rodenticide)  Basic copper arsenate 16102-92-4 ##### NA 132 Herbicide, Insecticide, Rodenticide Rodentici						neavy metal
Arsenic sulfide 12612-21-4 6901 NA 99 Herbicide, Insecticide, Rodenticide (Reavy metal and properties of the properties						
Arsenic trioxide 1327-53-3 7001 42 Herbicide, Insecticide, Rodenticide Heavy metal Resonance and Preservative Heavy metal Programic-arsenic, Heavy metal Resonance and Preservative Heavy metal Resonance and Preservative Heavy metal Resonance and Preservative Heavy metal Resonance and Preservative Heavy metal Resonance and Preservative Heavy metal Resonance and Preservative Heavy metal Resonance	Arsenic sulfide	12612-21-4	6901	NA 99		Inorgania argania
Arsenic trioxide    1327-53-3   7001   42   Herbicide, Insecticide, Rodenticide Rodenticid				1255		
Arsenic trioxide  Arsenic trioxide  Arsenic trisulfide  Arsenic trisulfide  1303-33-9  6901  NA 97  Herbicide, Insecticide, Rodenticide  Arsenic acid, ammonium salt  58829-95-1  #####  NA 105  Basic copper arsenate  16102-92-4  #####  NA 132  Herbicide, Insecticide, Wood Preservative  Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-copper  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-copper  Ino						110av y metat
Arsenic trisulfide 1303-33-9 6901 NA 97 Herbicide, Insecticide, Rodenticide Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Insecticide, Rodenticide Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Insecticide, Rodenticide Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Inorganic-arsen	Arsenic trioxide	1327-53-3	7001	42		Inorganic-arcenic
Arsenic trisulfide 1303-33-9 6901 NA 97 Herbicide, Insecticide, Rodenticide Heavy metal S8829-95-1 ##### NA 105 Herbicide, Insecticide, Wood Preservative Heavy metal NA 132 Herbicide, Insecticide, Rodenticide Heavy metal NA 132 Herbicide, Insecticide, Rodenticide Heavy metal NA 132 Herbicide, Insecticide, Rodenticide Inorganic-arsenic, Heavy metal NA 132 Herbicide, Insecticide, Rodenticide Inorganic-Copper Insecticide, Rodenticide Inorganic-Copper Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Inorganic-arsenic, Heavy metal Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-Copper Inorganic-Arsenic, Heavy metal, Inorganic-Copper Inorganic-Arsenic, Heavy metal, Inorganic-Copper Inorganic-Arsenic, Heavy metal, Inorganic-Arsenic, Heavy metal, Inorganic-Arsenic, Inorganic-Arse						
Arsenic trisulfide 1303-33-9 6901 NA 97 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Wood Preservative Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heav						l liouvý motar
Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Basic copper arsenate  16102-92-4  #####  Basic copper arsenate  16102-92-4  #####  NA 132  Herbicide, Insecticide, Rodenticide Rodentici	Arsenic trisulfide	1303-33-9	6901	NA 97		Inorganic-arsenic
Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Arsonic acid, ammonium salt  Basic copper arsenate  16102-92-4  #####  NA 132  Herbicide, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-copper Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal  Calcium arsenate  Calcium arsenite  53404-59-4  13602  NA 129  Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, In						Heavy metal
Arsonic acid, ammonium salt 58829-95-1 ##### NA 105 Herbicide, Wood Preservative  Basic copper arsenate 16102-92-4 ##### NA 132 Herbicide, Insecticide, Rodenticide Rodenticide Rodenticide, Insecticide, Rodenticide Rodentic						
Basic copper arsenate    Basic copper arsenate   16102-92-4   ##### NA 132   Herbicide, Rodenticide   Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal	Arsonic acid, ammonium salt	58829-95-1	######	NA 105		Inorganic-arsenic.
Basic copper arsenate    16102-92-4				· [	Insecticide,	
Basic copper arsenate  16102-92-4 ##### NA 132 Herbicide, Insecticide, Rodenticide Calcium arsenate  7778-44-1 13501 96 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-arsenic, Heavy metal Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-arsenic, Heavy metal Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal Inorganic-ar					Wood	<b>3</b>
Calcium arsenate 7778-44-1 13501 96 Herbicide, Insecticide, Rodenticide Inorganic-Copper Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Inorganic-lead, Heavy metal Lead arsenate 7784-40-9 13503 353 Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal Inorganic-arsenic, Heavy metal	-				Preservative	
Calcium arsenate  Calcium arse	Basic copper arsenate	16102-92-4	######################################	NA 132		Inorganic-arsenic,
Calcium arsenate  7778-44-1  13501  96 Herbicide, Insecticide, Rodenticide, Molluscicide  Calcium arsenite  53404-59-4  13602  NA 129 Herbicide, Insecticide, Rodenticide Rodenticide Rodenticide Rodenticide Heavy metal  10103-61-4  22801  NA 178 Herbicide, Insecticide, Rodenticide Rodenticide Rodenticide  Copper arsenite  10290-12-7  22401  NA 177 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Rodenticide Rodenticide  Cupric acetoarsenite  12002-03-8  22601  2485  Wood Preservative Preservative  12002-03-8  13503  1353  Herbicide, Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Lead arsenate, basic  1327-31-7  13502  354  Herbicide, Insecticide, Rodenticide Rodenticide Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal Herbicide, Insecticide, Rodenticide Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inor						Heavy metal,
Calcium arsenite 53404-59-4 13602 NA 129 Herbicide, Insecticide, Rodenticide Rodenticide  Copper arsenate 10103-61-4 22801 NA 178 Herbicide, Insecticide, Rodenticide  Copper arsenite 10290-12-7 22401 NA 177 Herbicide, Insecticide, Rodenticide  Cupric acetoarsenite 12002-03-8 22601 2485 Wood Preservative Heavy metal, Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Icad, Heavy metal, Inorganic-Icad, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-Icad, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal	0.1.:					Inorganic-Copper
Calcium arsenite  S3404-59-4  Calcium arsenite  S3404-59-4  Copper arsenate  Copper arsenate  Copper arsenite  Copper Bracicide,  Rodenticide  Areavy metal  Copper Inorganic-arsenic,  Inorganic-arsenic,  Inorganic-arsenic,  Inorganic-arsenic,  Inorganic-lead,  Heavy metal  Inorganic-arsenic,	Calcium arsenate	77/8-44-1	13501	96		Inorganic-arsenic,
Calcium arsenite 53404-59-4 13602 NA 129 Herbicide, Insecticide, Rodenticide  Copper arsenate 10103-61-4 22801 NA 178 Herbicide, Insecticide, Rodenticide Rodenticide  Copper arsenite 10290-12-7 22401 NA 177 Herbicide, Insecticide, Rodenticide Rodenticide  Cupric acetoarsenite 12002-03-8 22601 2485 Wood Preservative Heavy metal, Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Arsenic, Heavy metal, Inorganic-Copper Inorganic-Arsenic, Heavy metal, Inorganic-Arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Insecticide, Rodenticide Heavy metal	!					Heavy metal
Calcium arsenite 53404-59-4 13602 NA 129 Herbicide, Insecticide, Rodenticide Copper arsenate 10103-61-4 22801 NA 178 Herbicide, Insecticide, Rodenticide Rodenticide Inorganic-arsenic, Heavy metal, Inorganic-Copper Insecticide, Rodenticide Rodenticide Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Inorganic-Copper Inorganic-Inorganic-Inorganic-Inorganic-Iead, Rodenticide Inorganic-Iead, Heavy metal Inorganic-Iead, Heavy metal Inorganic-Iead, Heavy metal Inorganic-Iead, Heavy metal Inorganic-Iead, Heavy metal Inorganic-Iead, Inorganic-Iead, Inorganic-Iead, Heavy metal Inorganic-Iead, Inorgan	<u> </u>			[		
Copper arsenate 10103-61-4 22801 NA 178 Herbicide, Insecticide, Rodenticide Rodenticide  Copper arsenite 10290-12-7 22401 NA 177 Herbicide, Insecticide, Rodenticide Inorganic-Copper Insecticide, Rodenticide Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-	Calcium arganita	52404 50 4	12.000	371 100		
Copper arsenate  10103-61-4  Copper arsenite  10290-12-7  Copper arsenite  10290-12-7  Copper arsenite  10290-12-7  Copper arsenite  10202-03-8  Lead arsenate  12002-03-8  Lead arsenate  1327-31-7  Lead arsenate  1327-31-7  Magnesium arsenate  10103-50-1  Copper arsenite  10103-61-4  22801  NA 178  Herbicide, Insecticide, Rodenticide  Preservative  Lead arsenate  Rodenticide  Inorganic-arsenic, Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-lead, Heavy metal  Inorganic-lead, Heavy metal  Inorganic-lead, Heavy metal  Inorganic-arsenic, Inorganic-lead, Heavy metal  Inorganic-arsenic, Inorganic-a	Calcium aisemte	33404-39-4	13602	NA 129		
Copper arsenate  10103-61-4  22801  NA 178  Herbicide, Insecticide, Rodenticide  Copper arsenite  10290-12-7  22401  NA 177  Herbicide, Insecticide, Inorganic-Copper  Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-Copper  Lead arsenate  12002-03-8  22601  2485  Wood Preservative  Lead arsenate  7784-40-9  13503  353  Herbicide, Inorganic-arsenic, Heavy metal, Inorganic-copper  Inorganic-arsenic, Inorganic-lead, Heavy metal  Lead arsenate, basic  1327-31-7  13502  354  Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Magnesium arsenate  10103-50-1  13504  NA 126  Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal  Inorganic-arsenic, Inorganic-lead, Heavy metal  Inorganic-arsenic, Inorganic-lead, Heavy metal  Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Rodenticide  Magnesium arsenate				i		Heavy metal
Copper arsenite    Copper arsenite   10290-12-7   22401   NA 177   Herbicide, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Heavy metal, Inorganic-Copper   Inorganic-Itead, Inorganic-Itea	Conner arsenate	10103.61.4	22801	NTA 170		
Copper arsenite  10290-12-7  22401  NA 177  Herbicide, Inorganic-arsenic, Heavy metal, Inorganic-Copper  Cupric acetoarsenite  12002-03-8  22601  2485  Wood Preservative  Heavy metal, Inorganic-arsenic, Heavy metal, Inorganic-copper  Heavy metal, Inorganic-Copper  Heavy metal, Inorganic-Copper  Heavy metal, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Lead arsenate, basic  1327-31-7  13502  354  Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal  Magnesium arsenate  10103-50-1  13504  NA 126  Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal	Coppor arsonate	10103-01-4	22001	IVA 178		
Copper arsenite  10290-12-7  22401  NA 177  Herbicide, Insecticide, Rodenticide  Cupric acetoarsenite  12002-03-8  22601  2485  Wood Preservative  Lead arsenate  7784-40-9  13503  353  Herbicide, Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Inorg			ŀ			
Cupric acetoarsenite 12002-03-8 22601 2485 Wood Preservative Heavy metal, Inorganic-Copper Heavy metal, Inorganic-Copper Heavy metal, Inorganic-Copper Heavy metal, Inorganic-Copper Heavy metal, Inorganic-Copper Inorganic-Inorg	Copper arsenite	10290-12-7	22401	NA 177		
Cupric acetoarsenite  12002-03-8  22601  2485  Wood Preservative  Lead arsenate  7784-40-9  13503  353  Herbicide, Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Lead, Inorganic-lead, Heavy metal Heavy metal Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Magnesium arsenate  10103-50-1  13504  NA 126  Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Heavy metal			22 /01	112 1//		
Cupric acetoarsenite  12002-03-8  22601  2485  Wood Preservative  Heavy metal, Inorganic-Copper Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Heavy metal Heavy metal  Magnesium arsenate  10103-50-1  13504  NA 126  Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal Heavy metal Heavy metal Rodenticide Heavy metal			1			
Lead arsenate 7784-40-9 13503 353 Herbicide, Inorganic-Copper  Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-lead, Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Inorganic-lead, Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Inorganic-arsenic, Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Heavy metal	Cupric acetoarsenite	12002-03-8	22601	2485		Inorganic arconic
Lead arsenate 7784-40-9 13503 353 Herbicide, Inorganic-Copper Inorganic-Copper Inorganic-Lead, Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Inorganic	_					
Lead arsenate 7784-40-9 13503 353 Herbicide, Inorganic-arsenic, Inorganic-lead, Rodenticide Heavy metal  Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-lead, Rodenticide Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal  Magnesium arsenate Rodenticide Rodenticide		<b>_</b>				
Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-lead, Heavy metal Inorganic-lead, Heavy metal Inorganic-lead, Inorganic-lead, Inorganic-lead, Inorganic-lead, Rodenticide Heavy metal Inorganic-lead, Heavy metal Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Inorganic-arsenic, Heavy metal	Lead arsenate	7784-40-9	13503	353	Herbicide.	
Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-arsenic, Insecticide, Rodenticide Heavy metal  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Inorganic-arsenic, Heavy metal  Rodenticide Heavy metal				-	- 1	Inorganic-lead
Lead arsenate, basic 1327-31-7 13502 354 Herbicide, Inorganic-arsenic, Insecticide, Rodenticide Heavy metal Inorganic-arsenic, Insecticide, Heavy metal Inorganic-arsenic, Insecticide, Inorganic-arsenic, Heavy metal Rodenticide						
Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Rodenticide Heavy metal Inorganic-arsenic, Insecticide, Rodenticide Heavy metal Rodenticide	Lead arsenate, basic	1327-31-7	13502	354		
Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Insecticide, Rodenticide  Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Heavy metal Rodenticide		i	1			Inorganic-lead
Magnesium arsenate 10103-50-1 13504 NA 126 Herbicide, Inorganic-arsenic, Insecticide, Rodenticide						
Insecticide, Heavy metal Rodenticide	Magnesium arsenate	10103-50-1	13504	NA 126		
Monocons Rodenticide Rodenticide					Insecticide,	
Manganese arsenate 7784-38-5 13506 NA 127 Herbicide, Inorganic-arsenic					Rodenticide	
, , , , , , , , , , , , , , , , , , ,	Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic-arsenic,

Paris green	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Tro To-	
Paris green   12002-03-8   22601   460   Wood   Inorganic-Arser   Inorganic-arsen   Heavy metal   Rodenticide   Inorganic-arsen   Heavy metal   Herbicide,   Insecticide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Heavy metal   Herbicide,   Inorganic-arsen   Heavy metal   Hea		<u>CZAS INUINOCI</u>			Use Type	Chemical Class
Paris green						Heavy metal
Potassium arsenite 10124-50-2 13605 NA 131 Herbicide, Insecticide, Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Rodenticide Inorganic-arsen Heavy metal Rodenticide Rodenticide Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Insecticide, Rodenticide Rodenticide Rodenticide Rodenticide, Insecticide	Paris green	12002-03-8	22601	460	Wood	Inorganic-Arsenic, Inorganic-Copper,
Potassium hexafluoroarsenate 17029-22-0 ##### NA 160 N/A Insecticide, Rodenticide Insecticide Insecticide, Rodenticide In	1		13605	NA 131	Insecticide,	Inorganic-arsenic, Heavy metal
Sodium arsenate		13464-35-2	13605	NA 132	Insecticide,	Inorganic-arsenic, Heavy metal
Sodium arsenate 13464-38-5 13505 283 Herbicide, Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide Insecticide, Rodenticide, Prungicide Insecticide, Rodenticide, Fungicide Inorganic-arsen Heavy metal Preservative, Fungicide Inorganic-arsen Heavy metal Sodium pyroarsenate 13464-42-1 13401 2864 Wood Preservative, Fungicide Inorganic-arsen Heavy metal Sodium thioarsenate (Na3AsO3S) 17367-56-5 13507 NA 128 N/A Inorganic-arsen Heavy metal Inorganic-arsen Heavy metal, Inorganic-Arsen Insecticide, Rodenticide Inorganic-Arsen Heavy metal, Inorganic-Arsen Inorganic-Arsen Insecticide, Rodenticide Inorganic-Arsen Insecticide, Rodenticide Heavy metal Inorganic-Arsen Insecticide, Rodenticide Heavy metal Inorganic-Arsen Insecticide, Rodenticide Heavy metal Inorganic-Arsen Insecticide Antimony Potassium tartrate 28300-74-5 6201 3057 Insecticide Antimony ethylhexanoate 58-36-6 12601 1402 Fungicide, Microbiocide Antimony Insecticide Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal Organoarsenic Heavy metal Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal Organoarsenic Heavy me		17029-22-0	#####	NA 160	N/A	Inorganic-arsenic,
Sodium arsenite 7784-46-5 13603 534 Herbicide, Insecticide, Rodenticide, Fungicide Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Mood Preservative, Fungicide Heavy metal Inorganic-Arsen Heavy metal Inorganic-Arsen Insecticide, Rodenticide Inorganic-Arsen Inorganic-Zing Rodenticide Heavy metal Mood Preservative, Fungicide Mood Preservative, Fungicide, Mood Preservative, Fungicide, Microbiocide Antimony Mood Preservative, Fungicide, Microbiocide Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fungicide, Mood Preservative, Fung		13464-38-5	13505	283	Insecticide,	Inorganic-arsenic, Heavy metal
Sodium pyroarsenate 13464-42-1 13401 2864 Wood Preservative, Fungicide Heavy metal  Sodium thioarsenate (Na3AsO3S)  Zinc arsenate 13464-44-3 13301 NA 125 Herbicide, Inorganic-arsen Heavy metal  Zinc arsenite 28837-97-0 13604 NA 130 Herbicide, Inorganic-Arsen Inorganic-Inorganic-Inorganic-Inorganic-Inorganic-Inorganic-Inorganic-Inorg			13603	534	Herbicide, Insecticide, Rodenticide,	Inorganic-arsenic, Heavy metal
Consideration   Consideratio					Wood Preservative,	Inorganic-arsenic, Heavy metal
Zinc arsenate 13464-44-3 13301 NA 125 Herbicide, Inorganic-Arsen Heavy metal, Rodenticide Inorganic-Zinc Inorganic-Zinc Inorganic-Arsen Inorganic-Zinc Inorganic-Zinc Inorganic-Arsen Inorganic-Zinc Inorganic-Zinc Rodenticide Inorganic-Zinc Rodenticide Inorganic-Zinc Rodenticide Heavy metal Antimony Potassium tartrate 28300-74-5 6201 3057 Insecticide Antimony Diphenylstibene 2- 5035-58-5 6202 NA 82 Microbiocide Antimony Inorganic-Zinc Microbiocide Inorganic-Zinc Heavy metal Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal Arsonic acid, (4-aminophenyl)- 98-50-0 ###### NA 109 N/A Organoarsenic Heavy metal	(Na3AsO3S)		13507	NA 128	N/A	Inorganic-arsenic, Heavy metal
Zinc arsenite  28837-97-0  13604  NA 130  Herbicide, Inorganic-Arsen Inorganic-Zinc Rodenticide  Antimony  7440-36-0  Antimony potassium tartrate  28300-74-5  Diphenylstibene 2- ethylhexanoate  10,10'-Oxybisphenoxyarsine  Arsenosobenzene  637-03-6  Arsonic acid, (4-aminophenyl)-  Page 13604  NA 130  Herbicide, Inorganic-Arsen Inorganic-Zinc Rodenticide  Antimony  Heavy metal  NA 130  Herbicide, Inorganic-Arsen Inorganic-Zinc Rodenticide  NA 82  N/A  Antimony  Antimony  NA 82  Microbiocide  Heavy metal  NA 100  N/A  Organoarsenic Heavy metal  NA 109  N/A  Organoarsenic Heavy metal  Organoarsenic Heavy metal  NA 109  N/A  Organoarsenic Heavy metal		13464-44-3	13301	NA 125	Insecticide,	Inorganic-Arsenic, Heavy metal,
Antimony 7440-36-0 NA 516 2388 N/A Antimony Antimony potassium tartrate 28300-74-5 6201 3057 Insecticide Antimony Diphenylstibene 2- 5035-58-5 6202 NA 82 Microbiocide Antimony 10,10'-Oxybisphenoxyarsine 58-36-6 12601 1402 Fungicide, Microbiocide Heavy metal Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal Arsonic acid, (4-aminophenyl)- 98-50-0 ###### NA 109 N/A Organoarsenic Heavy metal	Zinc arsenite	28837-97-0	13604	NA 130	Herbicide, Insecticide,	Inorganic-Arsenic, Inorganic-Zinc,
Antimony potassium tartrate 28300-74-5 6201 3057 Insecticide Antimony Diphenylstibene 2- ethylhexanoate 5035-58-5 6202 NA 82 Microbiocide Antimony 10,10'-Oxybisphenoxyarsine 58-36-6 12601 1402 Fungicide, Microbiocide Heavy metal Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal Arsonic acid, (4-aminophenyl)- 98-50-0 ###### NA 109 N/A Organoarsenic Heavy metal		7440-36-0	NA 516	2388		
Diphenylstibene 2- ethylhexanoate  10,10'-Oxybisphenoxyarsine  58-36-6  12601  1402  Fungicide, Microbiocide  Heavy metal  Arsenosobenzene  637-03-6  7101  NA 100  N/A  Organoarsenic  Heavy metal  Arsonic acid, (4-aminophenyl)-  98-50-0  ######  NA 109  N/A  Organoarsenic  Heavy metal  Consolvitio soid	Antimony potassium tartrate		6201	3057	Insecticide	
Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic  Arsonic acid, (4-aminophenyl)- 98-50-0 ##### NA 109 N/A Organoarsenic  Heavy metal  Consolvitions acid.	ethylhexanoate		6202	NA 82	Microbiocide	
Arsenosobenzene 637-03-6 7101 NA 100 N/A Organoarsenic Heavy metal  Arsonic acid, (4-aminophenyl)- 98-50-0 ##### NA 109 N/A Organoarsenic Heavy metal			12601	1402		Organoarsenic, Heavy metal
Arsonic acid, (4-aminophenyl)- 98-50-0 ##### NA 109 N/A Organoarsenic Heavy metal		637-03-6	7101	NA 100		Organoarsenic,
		98-50-0	#####	NA 109	N/A	Organoarsenic,
Defoliant Heavy metal	Cacodylic acid	75-60-5	12501	32	Herbicide, Defoliant	Organoarsenic,
Calcium acid methanearsonate 5902-95-4 13806 101 Herbicide, Organoarsenic,		5902-95-4	13806	101	Herbicide,	Organoarsenic,
Calcium methanearsonate 6423-72-9 13809 NA 136 Herbicide, Organoarsenic,	Calcium methanearsonate	6423-72-9	13809	NA 136	Herbicide,	Organoarsenic,
Calcium propanearsonate 126-94-3 13801 NA 133 Herbicide, Organoarsenic,	Calcium propanearsonate	126-94-3	13801	NA 133	Herbicide,	Organoarsenic,
Dodecyl ammonium 53404-47-0 13805 857 Herbicide, Organoarsenic,		53404-47-0	13805	857	Herbicide,	Organoarsenic,
DSMA 144-21-8 13802 251 Herbicide, Organoarsenic,		144-21-8	13802	251	Herbicide,	Organoarsenic,
	Methane arsonic acid (MAA)	124-58-3	#####	NA 27		Organoarsenic,
Monoammonium 2321-53-1 13808 NA 135 Herbicide, Organoarsenic,	Monoammonium	2321-53-1	13808	NA 135	Herbicide,	

MSMA	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Class
methanearsonate					Ose I ype	Chemical Class
MSNA	methanearsonate				Defoliant	Heavy metal
Defoliant   Heavy metal   He	MSMA	2163-80-6	13803	34		
Octylammonium methanearsonate   13804   27   Herbicide, Defoliant   Phenarsazine chloride   578-94-9   63901   1342   N/A   Organoarsenic, Heavy metal   Organo				1		
Phenarsazine chloride		6379-37-9	13804	27	Herbicide,	
Phenarsazine oxide					<del></del>	Heavy metal
Phenarsazine oxide	Phenarsazine chloride	578-94-9	63901	1342	N/A	
Sodium cacodylate   124-65-2   12502   1673   Herbicide, Defoliant, Rodenticide   Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Organoarsenic, Heavy metal   Hydroxymercury cresol   12379-66-7   46001   NA 390   Microbiocide   Microbiocide   Heavy metal   Horganic-Mercury, Heavy metal   Heavy metal   Horganic-Mercury, Heavy metal   Horganic-M	Phonograpino ovido	4005 45 0	10,000	1371 100	ļ <u></u>	
Sodium cacodylate   124-65-2   12502   1673   Herbicide, Defoliant, Rodenticide   Heavy metal	Filenarsazine oxide	4093-43-8	12602	NA 122	N/A	
Triethanolamine cacodylate  Triethanolamine cacodylate  Friethanolamine cacodylate  Triethanolamine sopone sopone sopone some sopone some sopone some sopone some some some some some some some som	Sodium cacodylate	124-65-2	12502	1672	ITanhiai 4	
Triethanolamine cacodylate 69484-14-6 12503 NA 121 Herbicide, Defohant Defohant Heavy metal Triethanolamine 5902-97-6 13807 NA 134 Herbicide, Organoarsenic, Heavy metal Defohant Defohant Defohant Defohant Calomel 10112-91-1 52201 100 Fungicide Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Phenols Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Phenols Inorganic-Mercury, Heavy metal Inorganic-Mercury,		124-03-2	12302	10/3		
Triethanolamine cacodylate   69484-14-6   12503   NA 121   Herbicide, Defoliant   Organoarsenic, Heavy metal   Triethanolamine methanearsonate   13807   NA 134   Herbicide, Defoliant   Organoarsenic, Heavy metal   Triethanolamine methanearsonate   10112-91-1   52201   100   Fungicide   Heavy metal   Inorganic-Mercury, Heavy me		]				neavy metal
Triethanolamine methanearsonate	Triethanolamine cacodylate	69484-14-6	12503	NA 121		Organoarsenic
Triethanolamine methanearsonate   3902-97-6   13807   NA 134   Herbicide, Defoliant Defoliant Defoliant Defoliant Defoliant Calomel   10112-91-1   52201   100   Fungicide   Heavy metal   Inorganic-Mercury, Heavy metal   Inorganic-Mercury, Heavy metal   Inorganic-Mercury, Heavy metal   Inorganic-Mercury, Heavy metal   Inorganic-Mercury, Heavy metal   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   P						Heavy metal
Mercuric clate		5902-97-6	13807	NA 134		
Calomel   10112-91-1   52201   100   Fungicide   Inorganic-Mercury, Heavy metal   Hydroxymercury cresol   12379-66-7   46001   NA 390   Microbiocide   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Phenols   Inorganic-Mercury, Heavy metal   Inorg						
Heavy metal   Heavy metal	Calomel	10112-91-1	52201	100	Fungicide	
Mercuric acetate   1600-27-7   52104   NA 441   N/A   Inorganic-Mercury, Heavy metal, Phenois						
Mercuric chloride  Mercuric chloride  7487-94-7  52001  372  Fungicide  Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Dithiocarbamate  Mercuric iodide  7774-29-0  52003  NA 438  N/A  Inorganic-Mercury, Heavy metal Dithiocarbamate  Mercuric oleate  1191-80-6  52105  3276  N/A  Inorganic-Mercury, Heavy metal Inorganic-Mercury	Hydroxymercury cresol	12379-66-7	46001	NA 390	Microbiocide	
Mercuric chloride 7487-94-7 52001 372 Fungicide Inorganic-Mercury, Heavy metal  Mercuric dimethyl dithiocarbamate 15415-64-2 34808 709 Microbiocide Inorganic-Mercury, Heavy metal, Dithiocarbamate  Mercuric iodide 7774-29-0 52003 NA 438 N/A Inorganic-Mercury, Heavy metal, Dithiocarbamate  Mercuric oleate 1191-80-6 52105 3276 N/A Inorganic-Mercury, Heavy metal  Mercuric oxide 21908-53-2 52102 955 Fungicide Inorganic-Mercury, Heavy metal  Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal  Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide Inorganic-Mercury, Heavy metal  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert-Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Chromium(VI), Inor		1.500.00				Heavy metal, Phenols
Mercuric chloride  Mercuric dimethyl dithiocarbamate  Mercuric iodide  Mercuric iodide  Mercuric oleate  Mercuric oleate  1191-80-6  1190-80-6  121908-53-2  121001  Mercury netal  Mercury netal  Mercury netal  Mercury	Mercuric acetate	1600-27-7	52104	NA 441	N/A	
Mercuric dimethyl dithiocarbamate  Mercuric iodide  Mercuric iodide  Mercuric iodide  Mercuric oleate  Mercuric oleate  Mercuric oxide  Mercuric oxide  Mercury  Merc	Morrowia alla sida	7407.04.7	50004			Heavy metal
Mercuric dimethyl dithiocarbamate  Mercuric iodide  Mercuric iodide  Mercuric oleate  Mercuric oleate  Mercuric oxide  Mercury  M	Mercuric chioride	7487-94-7	52001	372	Fungicide	
Mercuric oleate 1191-80-6 52105 3276 N/A Inorganic-Mercury, Heavy metal Inorganic-Mercury, Inorganic-	Mercuria dimethul	15415 64 0	24000	700		
Mercuric iodide 7774-29-0 52003 NA 438 N/A Inorganic-Mercury, Heavy metal  Mercuric oleate 1191-80-6 52105 3276 N/A Inorganic-Mercury, Heavy metal  Mercuric oxide 21908-53-2 52102 955 Fungicide Inorganic-Mercury, Heavy metal  Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal  Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Insecticide, Fungicide  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Mercury, Inorganic-Chromium(VI), Ino	dithiocarbamate	15415-64-2	34808	709	Microbiocide	
Mercuric iodide 7774-29-0 52003 NA 438 N/A Inorganic-Mercury, Heavy metal  Mercuric oleate 1191-80-6 52105 3276 N/A Inorganic-Mercury, Heavy metal  Mercuric oxide 21908-53-2 52102 955 Fungicide Inorganic-Mercury, Heavy metal  Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal  Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide Fungicide  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,	diunocarbamate	ĺ				
Mercuric oleate 1191-80-6 52105 3276 N/A Inorganic-Mercury, Heavy metal 1 Mercuric oxide 21908-53-2 52102 955 Fungicide Inorganic-Mercury, Heavy metal 1 Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 1 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Heavy metal 2 Inorganic-Mercury, Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal 3 Inorganic-Zinc, Heavy metal 4 Inorganic	Mercuric iodide	7774-29-0	52003	NA 438	NT/A	
Mercuric oxide    1191-80-6   52105   3276   N/A   Inorganic-Mercury, Heavy metal		250	32003	112 436	IV/A	
Mercuric oxide  21908-53-2  52102  955  Fungicide  Inorganic-Mercury, Heavy metal Inorganic-M	Mercuric oleate	1191-80-6	52105	3276	N/A	
Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal  Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert-Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,				52.0	1472	
Mercury 7439-97-6 52301 NA 26 N/A Inorganic-Mercury, Heavy metal  Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert-Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric ichloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(V	Mercuric oxide	21908-53-2	52102	955	Fungicide	
Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide Potassium mercuric chloride Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Heavy metal Inorganic-Mercury, Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,					3	
Mercury naphthenate 1336-96-5 52101 NA 439 Wood Preservative, Insecticide, Fungicide Inorganic-Mercury, Heavy metal  Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert-Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-chromium(VI), Inorganic-Chromium(VI), Inorganic-Cinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,	Mercury	7439-97-6	52301	NA 26	N/A	
Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,						
Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,	Mercury naphthenate	1336-96-5	52101	NA 439		Inorganic-Mercury,
Mercury pentanedione  14024-55-6  52103  NA 440  N/A  Inorganic-Mercury, Heavy metal  NA 442  N/A  Inorganic-Mercury, Heavy metal  NA 437  Na 437  Microbiocide  Potassium mercuric iodide  Potassium mercuric iodide  Potassium mercury chromate  22323-45-1  Zinc mercury chromate  22323-45-1  A 447  NA 170  Fungicide  Fungicide  Fungicide  Fungicide  NA 440  NA 442  NA 442  NA 443  NA  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury  A 447  NA 147  Fungicide  Organomercury,				] ]		Heavy metal
Mercury pentanedione 14024-55-6 52103 NA 440 N/A Inorganic-Mercury, Heavy metal  Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,						
Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,	Morougi pontonodiono	14024 55 6	50100	1		
Mercury phenate 588-66-9 52106 NA 442 N/A Inorganic-Mercury, Heavy metal  p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide 7783-33-7 52107 NA 443 N/A Inorganic-Mercury, Heavy metal  Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 #### NA 147 Fungicide Organomercury,	Mercury pentanedione	14024-33-6	52103	NA 440	N/A	
p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide  Potassium chromate  Zinc mercury chromate  22323-45-1  (3-Ethoxypropyl)mercury  Description  53433-01-5  52002  NA 437  NA 437  Microbiocide  NA 437  Microbiocide  NA 437  N/A  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Inorganic-chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury  6012-84-6  #####  NA 147  Fungicide  Organomercury,	Mercury phenate	599 66 0	52106	NTA 440		
Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide  Potassium recuric chromate  Zinc mercury chromate  22323-45-1  (3-Ethoxypropyl)mercury  Dotylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  7783-33-7  52107  NA 443  N/A  Inorganic-Mercury, Heavy metal  Inorganic-Mercury, Inorganic-Chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  NA 147  Fungicide  Organomercury,  Organomercury,	Welcuty phenate	366-00-9	32100	NA 442	N/A	
Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide  Zinc mercury chromate  22323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  23323-45-1  Zinc mercury chromate  233	p-tert-	53433-01-5	52002	NA 427	Microbiasida	
dimethyl benzyl ammonium mercuric chloride  Potassium mercuric iodide  Potassium mercuric iodide  Zinc mercury chromate  22323-45-1  Zinc mercury chromate		22:122-01-2	32002	174.43/	wrici,opiocide	
mercuric chloride  Potassium mercuric iodide  Potassium mercuric iodide  Zinc mercury chromate  22323-45-1  Zinc mercury	dimethyl benzyl ammonium					neavy metal
Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-chromium(VI), Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal (3-Ethoxypropyl)mercury 6012-84-6 #### NA 147 Fungicide Organomercury,	mercuric chloride					
Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-chromium(VI), Inorganic-chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 #### NA 147 Fungicide Organomercury,	Potassium mercuric iodide	7783-33-7	52107	NA 443	N/A	Inorganic-Mercury
Zinc mercury chromate 22323-45-1 21004 NA 170 Fungicide Inorganic-Mercury, Inorganic-chromium(VI), Inorganic-Zinc, Heavy metal (3-Ethoxypropyl)mercury 6012-84-6 #### NA 147 Fungicide Organomercury,						
Inorganic-chromium(VI), Inorganic-Zinc, Heavy metal  (3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,	Zinc mercury chromate	22323-45-1	21004	NA 170	Fungicide	
(3-Ethoxypropyl)mercury 6012-84-6 #### NA 147 Fungicide Organomercury,					J	
(3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,						
(3-Ethoxypropyl)mercury 6012-84-6 ##### NA 147 Fungicide Organomercury,						
tampiole Organomercury,	(2 E4	- 6040				
Heavy metal		6012-84-6	#####	NA 147	Fungicide	
110001	broinide					Heavy metal

Chemical Name	CAS Number	U.S. EPA PC Code		<u>Use Type</u>	Chemical Class
(2 Hardware 2	60650 60 6		Code		
(3-Hydroxy-2- methoxypropyl)mercuric acetate	69653-69-6	#####	NA 153	N/A	Organomercury, Heavy metal
2-(acetoxymercuri)ethanol	4665-55-8	41501	NA 356	N/A	Organomercury, Heavy metal
3-(Hydroxymercuri)-4-nitro-o- phenol, sodium salt	53404-55-0	52604	NA 447	Microbiocide	Organomercury, Heavy metal
Chloromethoxy propyl mercuric acetamide	1319-86-4	18401	887	N/A	Organomercury, Heavy metal
Di(phenylmercuri) ammonium propionate	18467-88-4	66002	NA 551	N/A	Organomercury, Heavy metal
Di(phenylmercuric) dodecenyl succinate	27236-65-3	66001	501	Microbiocide, Fungicide	Organomercury, Heavy metal
Ethylmercuric phosphate	2235-25-8	41505	357	N/A	Organomercury, Heavy metal
Ethylmercurichlorendiimide	2597-93-5	45301	NA 383	N/A	Organomercury, Heavy metal
Ethylmercurithiosalicylic acid	148-61-8	78902	NA 724	Fungicide	Organomercury, Heavy metal
Ethylmercury 2,3- dihydroxypropylmercaptide	2597-92-4	41507	NA 361	Fungicide	Organomercury, Heavy metal
Ethylmercury acetate	109-62-6	41502	NA 357	Fungicide	Organomercury, Heavy metal
Ethylmercury bromide	107-26-6	#####	NA 149	Fungicide	Organomercury, Heavy metal
Ethylmercury chloride	107-27-7	41503	NA 358	Fungicide	Organomercury, Heavy metal
Ethylmercury pentachlorophenate	22232-28-6	41504	NA 359	Microbiocide	Organomercury, Chlorinated Phenol, Heavy metal
Hydroxymercuri-o-nitrophenol	30284-78-7	52601	2606	Microbiocide	Organomercury, Heavy metal
Hydroxymercuri-o-nitrophenol, sodium salt	1300-34-1	52602	NA 445	Microbiocide	Organomercury, Heavy metal
Hydroxymercurichlorophenols	53466-93-6	46002	NA 391	Microbiocide	Organomercury, Heavy metal
Hydroxymercuriphenyl ammonium triethanolamine	53466-95-8	46003	NA 392	Microbiocide	Organomercury, Heavy metal
Lactoxymercuriphenyl ammonium lactate	53466-98-1	51901	NA 429	Microbiocide	Organomercury, Heavy metal
Methoxyethyl mercury chloride	123-88-6	NA 212	NA 211	Fungicide	Organomercury
Methoxyethyl mercury silicate	64491-92-5	NA 208	NA 208	Fungicide	Organomercury
Methoxyethylmercury acetate	151-38-2	41508	NA 362	Fungicide	Organomercury, Heavy metal
Methylmercurichlorendimide	5902-79-4	45302	NA 384	N/A	Organomercury, Heavy metal
Methylmercury 2,3- dihydroxypropylmercaptide	2597-95-7	51905	NA 433	Fungicide	Organomercury, Heavy metal
Methylmercury 8- hydroxyquinolinate	86-85-1	51902	NA 430	Fungicide	Organomercury, Heavy metal
Methylmercury acetate	108-07-6	51903	NA 431	Fungicide	Organomercury, Heavy metal
Methylmercury benzoate	3626-13-9	51904	NA 432	Fungicide	Organomercury, Heavy metal
Methylmercury dicyano diamide	502-39-6	51909	454	Fungicide	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Ligo Temp	
<u> </u>	Orto Ivamber	Code	Code	Use Type	Chemical Class
Methylmercury hydroxide	1184-57-2	51906	NA 434	Fungicide	Organomercury, Heavy metal
Methylmercury nitrile	2597-97-9	51907	NA 435	Fungicide	Organomercury, Heavy metal
Methylmercury propionate	1460883	51908	NA 436	Fungicide	Organomercury, Heavy metal
N-(Ethylmercury)-p- toluenesulfonanilide	517-16-8	41506	NA 360	Fungicide	Organomercury, Heavy metal
N-(Phenylmercuri) urea	2279-64-3	#####	NA 160	Herbicide	Organomercury, Heavy metal
N- (Phenylmercuri)ethylenediamin e	5980-82-5	66009	NA 556	Fungicide	Organomercury, Heavy metal
o-(Chloromercuri)phenol	90-03-9	#####	NA 135	Microbiocide	Organomercury, Heavy metal
o-(Hydroxymercuri)benzoic acid, cyclic anhydride	5722-59-8	52603	NA 446	Microbiocide	Organomercury, Heavy metal
Phenylmercuriammonium propionate	53404-68-5	66023	NA 567	Fungicide	Organomercury, Heavy metal
Phenylmercuric 2- ethylhexanoate	13302-00-6	66024	NA 568	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric borate	6273-99-0	- 66005	NA 552	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric carbonate	53404-69-6	66006	NA 553	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric chloride	100-56-1	66007	NA 554	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric dimethyldithiocarbamate	32407-99-1	66008	NA 555	Microbiocide, Fungicide	Organomercury, Dithiocarbamate, Heavy metal
Phenylmercuric formamide	22894-47-9	66010	NA 557	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric hydroxide	100-57-2	66011	NA 558	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric lactate	122-64-5	66012	1535	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium acetate	5822-97-9	66013	NA 559	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium lactate	53404-70-9	66014	NA 560	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric naphthenate	31632-68-5	66015	NA 561	Wood Preservative, Insecticide, Fungicide	Organomercury, Heavy metal
Phenylmercuric nitrate	55-68-5	66016	477	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric octanoate	13864-38-5	66025	NA 569	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric oleate	104-60-9	66022	853	Microbiocide, Fungicide,	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	ICA OI	T	T
<u>Chomical Ivamo</u>	CASTAULIDEL	Code	CA Chem Code	Use Type	Chemical Class
			Code	Herbicide	<del> </del>
Phenylmercuric propionate	103-27-5	66018	NA 563	Fungicide,	07007
	İ		141505	Microbiocide,	Organomercury, Heavy metal
				Herbicide	nicavy metat
Phenylmercuric salicylate	28086-13-7	66019	NA 564	Fungicide,	Organomercury,
				Microbiocide,	Heavy metal
Dhomalasa and i			L	Herbicide	
Phenylmercuric thiocyanate	16751-55-6	66020	NA 565	Microbiocide,	Organomercury,
				Fungicide,	Heavy metal
Phenylmercuritriethanolammon	23319-66-6	66021	NA 566	Herbicide	<del></del>
ium·lactate	25517-00-0	00021	NA 300	Microbiocide,	Organomercury,
		•		Fungicide, Herbicide	Heavy metal
Phenylmercury 8-	14354-56-4	66017	NA 562	Fungicide,	Organomercury,
hydroxyquinolinolate				Microbiocide,	Heavy metal
				Herbicide	110avy inctai
Phenylmercury benzoate	94-43-9	51900	NA 428	Fungicide,	Organomercury,
			[ ]	Microbiocide,	Heavy metal
Phenylmercury nitrate	2227736	NTA 000	37. 555	Herbicide	
PMA	62-38-4	NA 209 66003	NA 208	Fungicide	Organomercury
	02-36-4	. 00003	491	Fungicide,	Organomercury,
				Microbiocide, Herbicide	Heavy metal
PMA, other related	NA 1106	NA 164	90491	Fungicide,	Organoman
			00.51	Herbicide,	Organomercury, Heavy metal
				Microbiocide	licavy miciai
PMAA	53404-67-4	66004	492	Fungicide,	Organomercury,
Pyridylmercuric acetate	1004.55			Microbiocide	Heavy metal
i yildymnercunc acetate	1334-77-6	69501	NA 661	N/A	Organomercury,
Pyridylmercuric chloride	1334-75-4	69502	NA 662	N/A	Heavy metal
	. ]	05502	NA 002	N/A	Organomercury,
Sodium	54-64-8	78901	NA 723	N/A	Heavy metal Organomercury,
ethylmercurithiosalicylate				- 11 - 2	Heavy metal
Tolylmercuric acetate	1300-78-3	#####	NA 150	Fungicide	Organomercury,
Anilinocadmium dilactate	10651 01 0			<u>-</u>	Heavy metal
Animocadinum diactate	19651-91-3	64601	NA 548	N/A	Inorganic-Cadmium,
Cadmium	7440-43-9	NA 460	2438	27/4	Heavy metal
	7110 133	11A 400	2430	N/A	Inorganic-Cadmium,
Cadmium carbonate	513-78-0	12901	93	N/A	Heavy metal Inorganic-Cadmium,
					Heavy metal
Cadmium chloride	10108-64-2	12902	94	N/A	Inorganic-Cadmium,
Cadmium cocoate	70060 60 7	25.			Heavy metal
Cadmum cocoate	72869-63-7	NA 459	3085	N/A	Inorganic-Cadmium,
Cadmium oxide	1306-19-0	#####	NIA 120	77/1	Heavy metal
3.1.1.1 3.11.20	1500-15-0	********	NA 130	N/A	Inorganic-Cadmium,
Cadmium perborate	NA 969	NA 461	3086	N/A	Heavy metal
			3000	17/2	Inorganic-Cadmium, Heavy metal
Cadmium sebacate	939499	12903	699	N/A	Inorganic-Cadmium,
Columbia					Heavy metal
Cadmium succinate	141-00-4	12904	92	N/A	Inorganic-Cadmium,
Cadmium sulfate	10124-36-4	12005	774		Heavy metal
Cammum Suriate	10124-30-4	12905	NA 123	N/A	Inorganic-Cadmium,
	<del></del>	<del></del>			Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Char	TT CD	
Chemical Ivame	CAS Number	Code		Use Type	Chemical Class
Cadmium yellow pigments	NA 967		Code		
Cadmidin yenow pigments	NA 907	NA 448	2439	N/A	Inorganic-Cadmium,
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NTA 101		Heavy metal
Cu-Ca-Zn-Chromate)	12001-20-6	21006	NA 171	Fungicide	Inorganic-Cadmium,
Cu-ca-zn-cmoniate)					Inorganic-
İ					Chromium(VI),
			Į.		Inorganic-Zinc,
7	1.505 - 10.5	ļ			Heavy metal
Lauric acid, barium cadmium	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium,
salt					Heavy metal
Ammonium dichromate	2149701	68305	NA 607	Wood	Inorganic-
,		,		Preservative	Chromium(VI),
					Heavy metal
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	Inorganic-
		•		Herbicide,	Chromium(VI),
				Microbiocide	Inorganic-Zinc,
<del></del>					Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood	Inorganic-
				Preservative	Chromium(VI),
					Heavy metal
Chromic acid	7738-94-5	21101	1188	Wood	Inorganic-
				Preservative	Chromium(VI),
				- 10001 ( 000 / 0	Heavy metal
Chromic oxide	1308-38-9	21103	NA 173	Wood	Inorganic-
			1111,0	Preservative	Chromium(VI),
· ·				I TOSCI VALIVO	Heavy metal
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide,	
1		21003	105	Wood	Inorganic-
				Preservative	Chromium(VI),
				Fieservative	Inorganic-Zinc,
		·			Heavy metal,
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NA 171	The maintain	Inorganic-Copper
Cu-Ca-Zn-Chromate)	12001-20-0	21000	NA 1/1	Fungicide	Inorganic-Cadmium,
			i		Inorganic-
,					Chromium(VI),
			1		Inorganic-Zinc,
Potassium chromate	7789-00-6	68301	700	377 1	Heavy metal
1 omssiani emoniate	7709-00-0	00201	700	Wood	Inorganic-
1			ŀ	Preservative	Chromium(VI),
Potassium dichromate	7778-50-9	69202	21.67		Heavy metal
i otassium diemomate	///8-30-9	68302	2167	Wood	Inorganic-
Sodium bichromate dihydrate	7790 12 0	- 60006		Preservative	Chromium(VI)
Southin Dictioniate diffydrate	7789-12-0	68306	3980	Wood	Inorganic-
		1		Preservative	Chromium(VI),
Coding of the control	2111616				Inorganic
Sodium chromate	2144646	68303	1241	Wood	Inorganic-
				Preservative	Chromium(VI),
l					Heavy metal
Sodium dichromate	10588-01-9	68304	3395	Wood	Inorganic-
, f	1	l		Preservative	Chromium(VI),
					Heavy metal
Zinc mercury chromate	22323-45-1	21004	NA 170	Fungicide	Inorganic-Mercury,
			İ	-	Inorganic-
	1		1		chromium(VI),
			l	į	Inorganic-Zinc,
					Heavy metal
Acetic acid, copper (2+) salt	142-71-2	NA 697	3013	N/A	Inorganic-Copper
Basic copper arsenate	16102-92-4	#####	NA 132	Herbicide,	Inorganic-arsenic,
	İ			Insecticide,	Heavy metal,
	<del></del>	<u>-</u>			ALOUVY IIICIAI,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	17. 5	
	CAD INMIDEL	Code	Code	Use Type	Chemical Class
		- 5000	Code	Rodenticide	<del> </del>
Bordeaux mixture	NA 240	NA 478	80	Fungicide	Inorganic-Copper
Chlorophyllin	11006-34-1	NA 191	NA 190	Fungicide,	Inorganic-Copper
			1 111 150	Microbiocide	Inorganic-Copper, Botanical
Copper	7440-50-8	22501	714	Fungicide	Inorganic-Copper
Copper (from triethanolamine	82027-59-6	24403	NA 198	Algaecide	Inorganic-Copper
complex)				- Inguotido	morganic-Copper
Copper 2-ethylhexanoate	22221-10-9	41201	2235	Fungicide	Inorganic-Copper
Copper 3-phenylsalicylate	1250682	23801	NA 191	N/A	Inorganic-Copper
Copper 8-quinolinoleate	10380-28-6	24002	159	Fungicide,	Inorganic-Copper
Connor abjetete	10040.55.0			Microbiocide	
Copper abietate Copper acetate	10248-55-2	23301	NA 184	Fungicide	Inorganic-Copper
Copper ammonium acetate	831632	44002	147	Fungicide	Inorganic-Copper
Copper ammonium carbonate	NA 1544 33113-08-5	NA 225	NA 225	Fungicide	Inorganic-Copper
Copper ammonium complex	16828-95-8	22703	1762	Fungicide	Inorganic-Copper
Copper arsenate	10103-61-4	22702	3550	Fungicide	Inorganic-Copper
Copper anomate	10103-01-4	22801	NA 178	Herbicide,	Inorganic-arsenic,
	ĺ			Insecticide, Rodenticide	Heavy metal,
Copper arsenite	10290-12-7	22401	NA 177	Herbicide.	Inorganic-Copper
· ·	·		11111/	Insecticide,	Inorganic-arsenic, Heavy metal,
				Rodenticide	Inorganic-Copper
Copper as elemental from	50376-91-5	24404	NA 199	N/A	Inorganic-Copper
copper - etidronic acid complex					Copper
Copper beta cyclodextrin hydroxide	NA 1366	NA 193	NA 193	Fungicide	Inorganic-Copper
Copper bronze powder	7440-50-8	22501			
Copper carbonate, basic	1184-64-1	22501 22901	1457	Antifoulant	Inorganic-Copper
a Prairie, Susio	1104-04-1	22901	60	Fungicide,	Inorganic-Copper
	ł			Algaecide, Insecticide	
Copper chloride (anhydrous)	1344-67-8	23802	NA 192	N/A	Inorganic-Copper
Copper chloride (dihydrate)	10125-13-0	23701	NA 190	N/A	Inorganic-Copper
Copper citrate	10402-15-0	44005	1406	N/A	Inorganic-Copper
Copper citrate chelate	NA 961	NA 387	3547	N/A	Inorganic-Copper
Copper complex with ammonia	67989-88-2	#####	NA 130	Fungicide	Inorganic-Copper
and ethylene diamine				J	
tetraacetate Copper cresylate	10070 40 0			<u></u>	
Copper	12379-42-9	23001	NA 181	Fungicide	Inorganic-Copper
dehydroabietylammonium 2-	53404-24-3	41202	NA 349	N/A	Inorganic-Copper
ethylhexanoate					
Copper dihydrazinium sulfate	33271-65-7	50504	753	N/A	
Copper ethanolamine complex	14215-52-2	24409	NA 201	Algaecide	Inorganic-Copper
Copper ethanolamine	NA 1044	NA 146	3551	Algaecide	Inorganic-Copper
complexes, mixed			2221	Aigaeoide	Inorganic-Copper
Copper ethylenediamine	13426-91-0	24407	3549	Herbicide	Inorganic-Copper
complex					morganic-Copper
Copper gluconate chelate	814-91-5	23305	3548	N/A	Inorganic-Copper
Copper hydrazinium sulfate	53433-02-6	50501	NA 418	Fungicide	Inorganic-Copper
Copper hydroxide	20427-59-2	23401	151	Fungicide,	Inorganic-Copper
				Microbiocide,	
Copper hydroxide -	NA 1017	NA 105	1006	Nematicide	
triethanolamine complex	14A 1017	NA 105	1826	N/A	Inorganic-Copper
Copper isodecanoate	84082-88-2	41221	NA 354	N/A	Inorgania C
	· · · · · · · · · · · · · · · · · · ·			11/17	Inorganic-Copper

Chemical Name	CAS Number	U.S. EPA PC	CACI	T **	
<u>Omorrhour ranno</u>	CAS Ivanibei	Code	CA Chem Code	Use Type	Chemical Class
Copper isononanoate	72915-82-3	41211	NA 352	77/4	<del> </del>
Copper isooctanoate	88859-94-3	41204	NA 350	N/A	Inorganic-Copper
Copper lactate	16039-52-4	23302	NA 185	N/A	Inorganic-Copper
Copper linoleate	7721-15-5	23303	1110	N/A	Inorganic-Copper
Copper metaborate	39290-85-2	22802	NA 179	N/A	Inorganic-Copper
Copper monoethanolamine	NA 960	NA 384		N/A	Inorganic-Copper
complex	147.500	INA 304	3552	N/A	Inorganic-Copper
Copper naphthenate	1338-02-9	23102	153	Wood	<del>                                     </del>
		23102	133	Preservative,	Inorganic-Copper
		•		Insecticide,	
				Fungicide, Dog	.
				and Cat	1
	<u> </u>			Repellent	
Copper naphthenate	1338-02-9	6000	NA 172	Wood	Inorganic-Copper
	1			Preservative,	coppor
•				Insecticide,	
1.				Fungicide, Dog	
ŀ				and Cat	
Copper naphthenate	1338-02-9	6200	374 170	Repellent	
copper naphatichate	1336-02-9	6300	NA 172	Wood	Inorganic-Copper
				Preservative,	
·		•		Insecticide, Fungicide, Dog	
,				and Cat	
				Repellent	
Copper nitroacetate	22221-12-1	23201	NA 183	N/A	Inorganic-Copper
Copper octanoate	20543-04-8	23306	5225	Fungicide	Inorganic-Copper
Copper oleate	10402-16-1	23304	154	Fungicide	Inorganic-Copper
Copper oxide (ic)	1317-38-0	42401	2231	Fungicide,	Inorganic-Copper
			1	Insecticide	morganic-Copper
Copper oxide (ous)	1317-39-1	25601	175	Fungicide,	Inorganic-Copper
				Insecticide	S.— Coppo.
Copper oxychloride	1332-40-7	8001	156	Fungicide	Inorganic-Copper
Copper oxychloride (Cu2Cl(OH)3)	1332-65-6	23501	NA 186	Fungicide	Inorganic-Copper
Copper oxychloride sulfate	9012 (0.0	- 22505			
Copper oxysulfate	8012-69-9 12158-97-3	23503	158	Fungicide	Inorganic-Copper
Copper oxysulfate		23504	NA 188	N/A	Inorganic-Copper
Copper pentachlorophenate	82010-79-5 15773-35-0	23504	NA 189	N/A	Inorganic-Copper
сорры ренастоторненате	13//3-33-0	63011	NA 512	Wood	Chlorinated Phenol,
	1		į	Preservative,	Inorganic-Copper
	]			Microbiocide,	
			1	Algaecide, Fungicide	
Copper phosphate	10103-48-7	22902	NA 180	N/A	Imagenia Ca
Copper phthalocyanine	147-14-8	NA 381	2479	Dye	Inorganic-Copper
Copper pyrophosphate	10102-90-6	69701	NA 663	N/A	Inorganic-Copper
Copper salts of fatty and rosin	9007-39-0	23104	155	Fungicide	Inorganic-Copper
acids			155	rungicide	Inorganic-Copper
Copper salts of the acids of tall oil	61789-22-8	23103	NA 182	N/A	Inorganic-Copper
Copper silicate	1344-72-5	24201	) TA 10=		
Copper sodium sulfate-	NA 1023		NA 197	N/A	Inorganic-Copper
phosphate complex	1NA 1023	NA 121	755	N/A	Inorganic-Copper
Copper sulfate (anhydrous)	7758-98-7	24408	1770	<del>-</del>	
(min) (mous)	1130-30-1	24400	1778	Fungicide,	Inorganic-Copper
				Algaecide,	ļ
			<u>_</u>	Molluscicide	

<u>Chemical Name</u>	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		Chemical Class
Copper sulfate (basic)	1344-73-6	8101	162	Fungicide,	Inorganic-Copper
				Algaecide,	—e-gaane coppor
Comparaulfata ( t. 1 1 1 1 1 1	7750 00 0		<u> </u>	Molluscicide	
Copper sulfate (pentahydrate)	7758-99-8	24401	161	Algaecide,	Inorganic-Copper
			ļ	Fungicide,	
				Insecticide,	
1			1	Water	
	•			Treatment,	
				Molluscicide,	
Copper sulfate ethylene	NA 1036	NA 132	2480	Nematicide N/A	<del> </del>
diamine		111132	2400	IV/A	Inorganic-Copper
Copper sulfate, monohydrate	10257-54-2	24402	1789	Fungicide,	Inorgania Communi
, ,	1	i	-, -,	Algaecide,	Inorganic-Copper
			[	Molluscicide	
Copper sulfate, tri-basic	NA 1384	NA 195	NA 194	Herbicide,	Inorganic-Copper
				Algaecide,	g
				Fungicide,	
				Water	
Copper triethanolamine	68027-59-6	374 105		Treatment	
complex	08027-39-6	NA 125	1615	Algaecide	Inorganic-Copper
Copper-zinc chromate complex	1344-74-7	21003	162		
TI Complex	1544-74-7	21003	163	Fungicide,	Inorganic-
1			Ĭ	Wood	Chromium(VI),
:			ľ	Preservative	Inorganic-Zinc,
		ĺ	ł		Heavy metal,
Copper-zinc sulfate complex	55072-57-6	8102	164	Fungicide	Inorganic-Copper Inorganic-Zinc,
				1 ungioide	Inorganic-Copper
Copper-zinc sulfate complex,	NA 959	NA 382	1751	Fungicide	Inorganic-Zinc,
monohydrate					Inorganic-Copper
Cuprammonium	NA 1382	NA 195	NA 194	Fungicide	Inorganic-Copper
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Inorganic-arsenic,
·		1		Preservative	Heavy metal,
Cupric ferric subsulfate	12169 20 6				Inorganic-Copper
complex	12168-20-6	42402	NA 365	Molluscicide	Inorganic-Copper
· Cupric fluosilicate	12062-24-7	75309	374 600		
Cupric gluconate	527-09-3	24405	NA 692	Insecticide	Inorganic-Copper
Cupric nitrate	3251-23-8	76102	3117	Fungicide	Inorganic-Copper
Cuprous and cupric oxide,	82010-82-0	42403	3118	N/A	Inorganic-Copper
mixed	02010-02-0	42403	NA 366	N/A	Inorganic-Copper
Cuprous chloride (Cu2Cl2)	7758-89-6	#####	5597	Fungicide	<del>-</del>
Cuprous iodide	7681-65-4	#####	NA 902	N/A	Inorganic-Copper
Cuprous sulfide	22205-45-4	#####	NA 124	N/A N/A	Inorganic-Copper
Cuprous thiocyanate	1111-67-7	25602		Microbiocide	Inorganic-Copper
Device (swimming pool	NA 1504	NA 222	NA 222	Algaecide	Inorganic-Copper
algaecide, copper generating)		111.222	11A 222	Algaecide	Inorganic-Copper
no guarantee required			1	ľ	
Dihydrogen	54453-03-1	24406	NA 200	N/A	Inorganic-Copper
{ethylenediaminetetraacetato(4				1411	morganic-Copper
-)}cuprate(2-)					
Disodium EDTA-copper	14025-15-1	NA 296	3173	N/A	Inorganic-Copper
EDTA diammonium copper	7379-26-2	39117	1613	Algaecide	Inorganic-Copper
salt FDTA					Sumo Copper
EDTA, copper complex	12276-01-6	39105	1135	Algaecide	Inorganic-Copper
		<del></del>			

	<del></del>				
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Lignin sulfonic acid, copper	771.000	Code	Code		
salt	NA 933	NA 126	1925	N/A	Inorganic-Copper
Malachite (copper equivalent 57%)	1319-53-5	#####	NA 155	N/A	Inorganic-Copper
Mixed copper chelates or complex blend of copper salts	NA 1437	NA 213	NA 212	Fungicide	Inorganic-Copper
N-(2-hydroxyethyl) ethylene diamine triacetic acid, copper	NA 1025	NA 122	1130	N/A	Inorganic-Copper
salt Neodecanoic acid, copper salt	50315-14-5	07500			
Paris green		97503	NA 854	N/A	Inorganic-Copper
	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal
Silver copper zeolite	130328-19-7	<del>              </del>	NA 110	Microbiocide	Inorganic-Silver, Heavy metal,
Tetracopper calcium .	1336-15-8	23502	NA 187	T	Inorganic-Copper
oxychloride Tricopper dichloride				Fungicide	Inorganic-Copper
dimethyldithiocarbamate	7076-63-3	#####	NA 152	Microbiocide	Dithiocarbamate, Inorganic-Copper
Azocyclotin	41083-11-8	#####	2408	Insecticide	Organotin, Heavy
Bis (tributyltin) adipate	7437-35-6	83117	1990	Antifoulant,	metal Organotin, Heavy
Bis (tributyltin) sulfide	4808-30-4	02112	- 4004	Microbiocide	metal
		83113	1886	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis (tributyltin) sulfone	NA 970	NA 476	1665	Antifoulant, Microbiocide	Organotin, Heavy
Bis(tributyltin) dodecenylsuccinate	12379-54-3	83101	NA 824	Antifoulant,	metal Organotin, Heavy
Bis(tributyltin) salicylate	22330-14-9	83102	5074	Microbiocide Antifoulant,	metal Organotin, Heavy
Bis(tributyltin) succinate	4644-96-6	83103	74	Microbiocide Antifoulant,	metal
Bis(tributyltin) sulfosalicylate				Microbiocide	Organotin, Heavy metal
	4419-22-1	83104	NA 825	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tripropyltin) oxide	1067-29-4	83201	NA 829	Microbiocide,	Organotin, Heavy
Cyhexatin	13121-70-5	#####	1638	Fungicide Insecticide	metal Organotin, Heavy
Decafentin	15652-38-7	#####	NA 132	N/A	metal Organotin, Heavy
Dibutyltin dichloride	683-18-1	83123			metal
			NA 828	N/A	Organotin, Heavy metal
Ethylene oxide condensate of abietylamine, tributyltin chloride	56573-85-4	NA 126	1864	Antifoulant, Microbiocide	Organotin, Heavy metal
Fenbutatin-oxide	13356-08-6	#####	1876	Insecticide	Organotin, Heavy
Fentin hydroxide	76-87-9	83601	599	Fungicide, Molluscicide, Herbicide	metal Organotin, Heavy metal
Methylenebis(thiocyanate) with TBTO	76397-81-4	81408	NA 785	Antifoulant,	Organotin, Heavy
Monotributyltin salicylate	4342-30-7	83122		Microbiocide	metal
	1372-30-7	63122	NA 827	Antifoulant, Microbiocide	Organotin, Heavy metal

Chemical Name	CAS Number	U.S. EPA PO	CA Chem	Use Type	T 61
		Code	Code	Use Type	Chemical Class
Poly (methylmethacrylate-co-	26354-18-7	83119	5075	Antifoulant,	Omercial 77
tributyltin methacrylate)				Microbiocide	Organotin, Heavy
Tin Acrylate Polymers RC 626	5 NA 1444	NA 214	NA 213	Antifoulant	
& RC 627		İ		1 Milloulant	Organotin
Tri-n-butyltin maleate	14275-57-1	83118	2185	Antifoulant,	Organotin, Heavy
		l		Microbiocide	
Tributyltin acetate	56-36-0	83105	2097	Antifoulant,	
<u> </u>				Microbiocide	Organotin, Heavy
Tributyltin acrylate	13331-52-7	83121	NA 826	Antifoulant,	metal Organotin, Heavy
	<u> </u>			Microbiocide	metal
Tributyltin benzoate	4342-36-3	83106	1114	Antifoulant,	Organotin, Heavy
CT II				Microbiocide	metal
Tributyltin chloride	1461-22-9	83107	1891	Antifoulant,	Organotin, Heavy
<b>7</b>				Microbiocide	metal
Tributyltin chloride complex of	56573-85-4	83108	1412	Antifoulant,	Organotin, Heavy
ethylene oxide condensate of				Microbiocide	metal
abietylamine			i		metai
Tributyltin chloride,	NA 1012	NA 970	938	Antifoulant,	Organotin, Heavy
myristylamine salt				Microbiocide	
Tributyltin fluoride	29131	83112	1030	Antifoulant,	metal Organotin, Heavy
	ļ			Microbiocide,	metal
			l j	Fungicide	metal
Tributyltin isopropyl succinate	53404-82-3	83115	1115	Antifoulant,	Organstin II
				Microbiocide	Organotin, Heavy
Tributyltin linoleate	24124-25-2	83109	1116	Antifoulant,	metal Organia II
				Microbiocide	Organotin, Heavy
Tributyltin methacrylate	2155-70-6	83120	2179	Antifoulant,	metal
			, .	Microbiocide	Organotin, Heavy metal
Tributyltin monopropylene	53466-85-6	83110	1985	Antifoulant,	Organotin, Heavy
glycol maleate				Microbiocide	metal
Tributyltin naphthenate	85409-17-2	NA 211	NA 210	Fungicide	Organotin
Tributyltin neodecanoate	28801-69-6	83111	1035	Antifoulant,	Organotin, Heavy
				Microbiocide	
Tributyltin oxide	56-35-9	83001	569	Antifoulant.	metal Organistic IV
·				Microbiocide,	Organotin, Heavy metal
	İ		[	Molluscicide,	metai
			ĺ	Fungicide	
Tributyltin resinate	13387-91-2	83114	1732	Antifoulant,	Organotin, Heavy
				Microbiocide	metal
Tributyltin sulfide	4808-30-4	83113	1352	Antifoulant,	Organotin, Heavy
				Microbiocide	
Trimethyltin chloride	1066-45-1	#####	NA 161	N/A	metal Organotin, Heavy
		j		- 1/1	metal
Triphenyltin acetate	900-95-8	#####	NA 153	Fungicide,	Organotin, Heavy
				Herbicide	
Triphenyltin chloride	639-58-7	#####	NA 153	N/A	metal
				17/1	Organotin, Heavy
Triphenyltin fluoride	379-52-2	83602	2212	Antifoulant	metal
				- muromani	Organotin, Heavy
Tripropyltin methacrylate	4154-35-2	83202	NA 830	N/A	metal VI
			- 12 2 0 3 0	74/W	Organotin, Heavy
Basic lead silicate	53466-66-3	48003	NA 417	N/A	metal
		.5555	-1/2 71/	IN/A	Inorganic-Lead,
Lead	7439-92-1	NA 134	2638	NT/A	Heavy metal
	•	-142 137	2030	N/A	Inorganic-Lead,
Lead acetate	301-04-2	48001	NA 415	NT/A	Heavy metal
	0. 2	T0001	NA 415	N/A	Inorganic-Lead,

Chemical Name	T CACAT 1	Ter		<del></del>	
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
	<del> </del>	Code	Code		
Lead arsenate	7784-40-9	12502	252	ļ <u></u>	Heavy metal
Ecad arschate	//84-40-9	13503	353	Herbicide,	Inorganic-arsenic,
	}	ł	1	Insecticide,	Inorganic-lead,
Lead arsenate, basic	1327-31-7	12500	1	Rodenticide	Heavy metal
Lead aischate, basic	1327-31-7	13502	354	Herbicide,	Inorganic-arsenic,
			Ì	Insecticide,	Inorganic-lead,
Lead metasilicate	NA 938	NA 138	1106	Rodenticide	Heavy metal
2000 Motusinouto	INA 936	NA 138	1106	N/A	Inorganic-Lead,
Lead monoxide	10190-55-3	NA 123	1271	27/1	Heavy metal
- Total Monorado	10150-55-5	NA 123	12/1	N/A	Inorganic-Lead,
Lead naphthenate	61790-14-5	48004	3296	37/4	Heavy metal
	01750-14-5	40004	3296	N/A	Inorganic-Lead,
Litharge	1317-36-8	48002	NA 416	37/4	Heavy metal
	1517-50-6	46002	NA 410	N/A	Inorganic-Lead,
Alkyl*-1-(2-aminoethyl)-2-	NA 1188	46606	NA 167	Microbiocide	Heavy metal
imidazoline acetate - nickel	11111100	40000	NA 10/	Microbiocide	Inorganic-Nickel,
sulfate complex			Ī		Imidazoline
Maneb and nickel sulfate	8005-46-7	#####	NA 158	Fungicide	Dist.: 1
hexahydrate (014505 +			11A 136	rungicide	Dithiocarbamate,
050505)			ĺ		Inorganic-Nickel
Nickel	7440-02-0	NA 121	762	N/A	Inorganic-Nickel
Nickel diethyl hexyl acid	NA 928	NA 53	3696	N/A	
phosphate complex		111200	3030	17/7	Inorganic-Nickel
Nickel sulfate (anhydrous)	7786-81-4	50508	NA 420	Fungicide	Inorgania Mistal
Nickel sulfate hexahydrate	10101-97-0	50505	NA 419	Fungicide	Inorganic-Nickel
Fatty acid* - silver complex	24927-67-1	72505	NA 675	Microbiocide,	Inorganic-Nickel
*(100% C8)		, 2505	1121 075	Fungicide,	Inorganic-Silver,
				Herbicide	Heavy metal
Metallic silver	7440-22-4	72501	2125	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
				Herbicide	11cavy metal
Silver acetate	563-63-3	72507	NA 676	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
				Herbicide	
Silver carbonate	534-16-7	72509	NA 678	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
C'1 11 11				Herbicide	,
Silver chloride	7783-90-6	72506	2324	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
C:1 1:	100000 10 =			Herbicide	
Silver copper zeolite	130328-19-7	#####	NA 110	Microbiocide	Inorganic-Silver,
		1		ì	Heavy metal,
Silver fluoride	7775 41 0				Inorganic-Copper
Silver fluoride	7775-41-9	72502	NA 674	Microbiocide,	Inorganic-Silver,
		ŀ	Ì	Fungicide,	Heavy metal
Silver iodide, colloidal	7792 06 0	374 104		Herbicide	
Shver lodide, colloidar	7783-96-2	NA 124	1556	Microbiocide,	Inorganic-Silver,
			İ	Fungicide,	Heavy metal
Silver nitrate	7761-88-8	70502	2055	Herbicide	
on tor music	1/01-00-9	72503	2856	Microbiocide,	Inorganic-Silver,
			ľ	Fungicide,	Heavy metal
	1		ŀ	Herbicide,	
				Plant Growth	
Silver orthophosphate	7784-09-0	72510	NIA 670	Regulator	
	7,70,700	12310	NA 679	Microbiocide,	Inorganic-Silver,

Chemical Name	CAS Number	ITE EDA DO	CA CI	77 =	T
<u>Sasimour rumo</u>	CAS Number	U.S. EPA PC Code	CA Chem Code	<u>Use Type</u>	Chemical Class
(Ag3PO4)		2000	Code	Fungicide,	Heavy metal
				Herbicide	
Silver oxide (Ag4O4)	1301-96-8	#####	NA 111	Microbiocide,	Inorganic-Silver,
	}			Fungicide,	Heavy metal
Silver oxide (Ag4O4)	155645-89-9	20000	371 111	Herbicide	
Sliver oxide (Ag4O4)	155645-89-9	#####	NA 111	Microbiocide,	Inorganic-Silver,
	1			Fungicide, Herbicide	Heavy metal
Silver sodium hydrogen	NA 1166	72560	NA 164	Microbiocide	Inorgania Cil
zirconium phosphate		,2000	1111 104	141C1ODIOCIDE	Inorganic-Silver, Heavy metal
(Ag0.18Na0.57H0.25Zr2(PO4)	ĺ				Ticavy metal
3)					
Silver thiocyanate	1701-93-5	68203	NA 606	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Silver thiuronium acrylate co-	53404-00-5	50501		Herbicide	
polymer	33404-00-5	72701	NA 681	Microbiocide,	Inorganic-Silver,
polymer	_			Fungicide, Herbicide	Heavy metal
Silver zeolite	130328-18-6	#####	NA 125	Microbiocide	Imamonio Gii
	100520 10 0	""""	IVA 123	Micropiocide	Inorganic-Silver, Heavy metal
Silver zinc zeolite	130328-20-0	#####	NA 111	Microbiocide	Inorganic-Silver,
					Inorganic-Zinc,
					Heavy metal
Silver, ionic	14701-21-4	NA 169	5150	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Sodium silver thiosulfate	NA 1398	NA 107	271 106	Herbicide	
bodium sirver unosumate	NA 1596	NA 197	NA 196	Herbicide	Inorganic-Silver,
2-Mercaptobenzothiazole, zinc	155-04-4	51705	1449	Fungicide,	Heavy metal Mercaptobenzothiazo
salt			1	Microbiocide	le, Inorganic-Zinc
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc				Fungicide	le, Inorganic-Zinc
salt	10115 61 0				
Boric acid(H4B6O11), zinc	12447-61-9	#####	5094	Fungicide	Inorganic-Zinc
salt(1:2) Calcium-zinc LN 193	NA 653	NA 120	2071		
(complex)	IVA 055	NA 120	3871.	N/A	Inorganic-Zinc
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	<b>Y</b>
	1,111000	0,001	1107	Herbicide,	Inorganic- Chromium(VI),
				Microbiocide	Inorganic-Zinc,
					Heavy metal
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide,	Inorganic-
				Wood	Chromium(VI),
		1		Preservative	Inorganic-Zinc,
	İ	ļ			Heavy metal,
Copper-zinc sulfate complex	55072-57-6	8102	164	Funcial	Inorganic-Copper
	330,2-3,1-0	0102	104	Fungicide	Inorganic-Zinc,
Copper-zinc sulfate complex,	NA 959	NA 382	1751	Fungicide	Inorganic-Copper Inorganic-Zinc,
monohydrate				- misioine	Inorganic-Zinc, Inorganic-Copper
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NA 171	Fungicide	Inorganic-Cadmium,
Cu-Ca-Zn-Chromate)					Inorganic-
	1		İ	ļ	Chromium(VI),
		1			Inorganic-Zinc,
EDTA, disodium zinc salt	14025 21 0	NIA 274	2100		Heavy metal
Lignin sulfonic acid, zinc salt	14025-21-9 NA 1014	NA 274	3189	N/A	Inorganic-Zinc
- 3 varionio acid, Zinc sait	11/1/1/14	NA 102	1768	N/A	Inorganic-Zinc

Chemical Name	CAS Number	TIC EDA DO	TO 4 01	T	
Chemical Ivanic	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
Lignin sulfonic acid, zinc,	NA 1030	NA 126	1771	N/A	ļ-,
manganese & iron salts		141120	1//1	IN/A	Inorganic-Zinc
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate,
				Langiores	Inorganic-Zinc
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
					Inorganic-Zinc
o-Phenylphenol, alkyl* amine -	82010-74-0	64107	NA 533	Microbiocide	Phenols, Inorganic-
zinc salt of *(100% C18)	2017 22 2		<u> </u>		Zinc
Pentachlorophenol, zinc salt	2917-32-0	63008	NA 510	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Zinc
				Microbiocide, Algaecide,	İ
				Fungicide	
Polyoxin D zinc salt	146659-78-1	#####	NA 129	Fungicide	Inorganic-Zinc
Propineb	12071-83-9	#####	NA 155	Fungicide,	Dithiocarbamate,
				Microbiocide	Inorganic-Zinc
Silver zinc zeolite	130328-20-0	######	NA 111	Microbiocide	Inorganic-Silver,
					Inorganic-Zinc,
Zinc	7440-66-6	ai n n n n			Heavy metal
Zinc 2,4,5-trichlorophenate	136-24-3	#####	2310	Herbicide	Inorganic-Zinc
2. 2, 4,5-triemorophenate	130-24-3	64221	NA 546	N/A	Chlorinated Phenol,
Zinc 2-ethyl hexoate	136-53-8	41203	3509	N/A	Inorganic-Zinc
Zinc 2-pyridinethiol-1-oxide	13463-41-7	88002	2128	Microbiocide	Inorganic-Zinc Inorganic-Zinc
Zinc 8-quinolinolate	13978-85-3	24005	NA 196	Fungicide,	Inorganic-Zinc
				Microbiocide	morganic-zinc
Zinc abietate	6798-76-1	NA 112	3506	N/A	Inorganic-Zinc
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
				Insecticide,	Heavy metal,
Zinc arsenite	28837-97-0	12604	271 100	Rodenticide	Inorganic-Zinc
Zinc arsenie	20037-97-0	13604	NA 130	Herbicide,	Inorganic-Arsenic,
.		1		Insecticide, Rodenticide	Inorganic-Zinc,
Zinc bacitracin	1405-89-6	6309	NA 87	Microbiocide	Heavy metal
Zinc carbonate	3486-35-9	NA 102	3507	N/A	Inorganic-Zinc Inorganic-Zinc
Zinc chloride	7646-85-7	87801	624	Microbiocide	Inorganic-Zinc
Zinc dehydroabietylammonium	53404-92-5	4211	NA 75	Fungicide,	Inorganic-Zinc
2-ethylhexanoate				Microbiocide	morganic-zmc
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Soap, Inorganic-Zinc
	į		ł	Adjuvant,	
				Fungicide,	
Zinc fluosilicate	16871-71-9	75307	1019	Insecticide	<u> </u>
Zinc formate	557-41-5	87802	NA 838	Insecticide N/A	Inorganic-Zinc
Zinc hydroxide	20427-58-1	88501	3510	N/A N/A	Inorganic-Zinc
Zinc isodecanoate	30304-30-4	41222	NA 355	N/A	Inorganic-Zinc
Zinc isononanoate	5398-80-6	41212	NA 353	N/A	Inorganic-Zinc Inorganic-Zinc
Zinc isooctanoate	84082-93-9	41205	NA 351	N/A	Inorganic-Zinc
Zinc mercury chromate	22323-45-1	21004	NA 170	Fungicide	Inorganic-Mercury,
	İ		1		Inorganic-
					chromium(VI),
1	j	1			Inorganic-Zinc,
Zinc naphthenate	12001-85-3	00201			Heavy metal
Zamo impattionate	12001-85-5	88301	1111	Wood	Inorganic-Zinc
		[	ļ	Preservative, Insecticide,	
			L	moccheide,	

Chemical Name	CAS Number			Use Type	Chemical Class
		Code	<u>Code</u>	<del></del>	
				Fungicide, Dog	
				and Cat	
7:	27252 20 0	07502	NIA 952	Repellent	T
Zinc neodecanoate	27253-29-8	97502	NA 853	N/A	Inorganic-Zinc
Zinc oxide	1314-13-2	88502	666	Fungicide, Adjuvant	Inorganic-Zinc
Zinc petroleum (C20- C30)sulfonate	68989-17-3	88503	NA 841	. N/A	Inorganic-Zinc
Zinc phenol sulfonate	127-82-2	89002	NA 842	N/A	Inorganic-Zinc
Zinc phosphide	1314-84-7	88601	626	Rodenticide	Inorganic-Zinc
Zinc resinate	9010-69-9	77001	NA 712	N/A	Inorganic-Zinc
Zinc silicate	NA 1318	8103	NA 176	Microbiocide	Inorganic-Zinc
Zinc stearate	557-05-1	77002	3511	N/A	Inorganic-Zinc
Zinc sulfate	7733-02-0	89001	667	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, anhydrous	7733-02-0	89001	1852	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, basic	68813-94-5	89101	NA 843	N/A	Inorganic-Zinc
Zinc sulfate, monohydrate	7446-19-7	#####	2995	Herbicide	Inorganic-Zinc
Zinc trichlorophenate	30143-22-7	64213	NA 543	Microbiocide	Chlorinated Phenol,
					Inorganic-Zinc
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate,
				<b>3</b>	Inorganic-Zinc
Zineb-ethylene thiuram	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate,
disulfide adduct					Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide,	Dithiocarbamate,
	•			Microbiocide,	Inorganic-Zinc
			ļ:	Dog and Cat	
				Repellent	
Ziram, cyclohexylamine	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
complex			}	Repellent,	Inorganic-Zinc
	12122			Fungicide	
1-butoxy ethoxy-2-propanol	124-16-3	NA 113	3074	N/A	Alcohol/Ether
1-butoxy-2-propanol	5131-86-8	NA 467	3075	. Solvent	Alcohol/Ether
1-decanol	112-30-1	79038	1791	Plant Growth	Alcohol/Ether
	1454 05 0	1,011,01	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Regulator	
1-Heptadecanol	1454-85-9	#####	NA 150	N/A	Alcohol/Ether
1-heptanol	111-70-6	NA 205	3222	N/A	Alcohol/Ether
1-hexanol	111-27-3	79047	3229	N/A	Alcohol/Ether
1-Octanol	111-87-5	79037	NA 733	Plant Growth	Alcohol/Ether
	1			Regulator,	
	102.17.1	371 144	2202	Herbicide	1111111
2,6,8-trimethyl-4-nonanol	123-17-1	NA 144	3303	Adjuvant	Alcohol/Ether
2-(2-Butoxyethoxy)ethanol	112-34-5	11502	NA 117	Solvent	Alcohol/Ether,
2 hutomathana1	111 76 2	11501		Francis 1	Glycol Ether
2-butoxyethanol	111-76-2	11501	89	Fungicide,	Alcohol/Ether
				Microbiocide,	
2-ethoxyethanol	110-80-5	NA 104	2554	Solvent Fungicide,	Alcohol/Ether
2-cmoxyemanoi	110-00-3	1477 104	2334	Microbiocide	Alcohol/Emer
2-Ethyl-1-butanol	97-95-0	#####	NA 148	N/A	Alcohol/Ether
2-ethyl-1-hexanol	10-47-6	NA 251	2560	N/A	Alcohol/Ether
2-Ethyl-1-hexanol	10-47-6	79098	NA 767	Solvent	
2-Euryl-1-nexanol 2-Phenylcyclohexanol	1444-64-0	65002			Alcohol/Ether
2-Phenylethanol	60-12-8	1503	NA 550 NA 62	N/A N/A	Alcohol/Ether
2-1 henylemanor	1 00-12-6	1 1303	1 14A 02	I IA/W	Alcohol/Ether

3.3.5+trimethyl cyclohexanol   116-02-9   NA 982   3493   N/A   Alcohol/Ether   3-phenoxyberzyl alcohol   13826-35-2   NA 513   2771   N/A   Alcohol/Ether   Alcohols, C4-C12, normal   NA 392   NA 713   2067   Solvent, Microbiocide   Alcohols, C4-C12, normal   NA 392   NA 713   2067   Solvent, Microbiocide   Alcohols, C6-12   68603-15-6   79029   5072   Microbiocide, Solvent   Alcohols, C6-12   68603-15-6   79029   5072   Microbiocide, Solvent   Alcohols, C6-12   Solvent   Solvent   Alcohols, C6-12   Solvent   Solvent   Alcohols, C6-12   Alcohols, C6-12   NA 394   NA 716   1536   Adjuvant   Alcohol/Ether   Alkylary loptyther alcohol   NA 657   NA 121   878   Adjuvant   Alcohol/Ether   Alkylary loptyther alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Burtyl alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Engricide   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Solvent   Alcohol/Ether   Alc	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
3-phenoxybernzyl alcohol   13826-35-2   NA 651   2771   N/A   Alcohol/Ether		•	<u>Code</u>			
A-Methyl-2-pentanol					N/A	Alcohol/Ether
Alcohols, C4-C12, normal						Alcohol/Ether
Alcohols, C6-12						Alcohol/Ether
Alcohols, C8-10						Alcohol/Ether
Alcohols, C8-10	Alcohols, C6-12	68603-15-6	79029	5072	•	Alcohol/Ether
Alkanols (ave. CO), mixed   NA 394   NA 716   1536   Adjuvant   Alcohol/Ether   Alkylaryl polyether alcohol   NA 657   NA 121   878   Adjuvant   Alcohol/Ether   Alkylaryl polyether alcohol   107-18-6   68401   3023   Herbicide   Benzyl alcohol   100-51-6   9502   915   Insecticide, Fungicide   Butyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether   Cetyl alcohol   36653-82-4   1508   2449   N/A   Alcohol/Ether   Cinnamyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether   Cyclobutaneethanol, 1-methyl-2-(1-methylethenyl), cis-   30820-22-5   ####   NA 922   N/A   Alcohol/Ether   Cyclobutaneethanol   108-93-0   25904   3121   Solvent   Alcohol/Ether   Denatured ethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbiocide, Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Alcohol/Ether   Alcohol/Ether   Alcohol/Ether   Solvent   Alcohol/Ether   Alc	Alcohols, C8-10	85566-12-7	79059	5073	Microbiocide,	Alcohol/Ether
Allyl alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Bernzyl alcohol   100-51-6   9502   915   Insecticide,   Alcohol/Ether   Fungicide   Fungi			NA 716	1536		Alcohol/Ether
Benzyl alcohol   100-51-6   9502   915   Insecticide, Fungicide   Solvent   Alcohol/Ether   Cetyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether   Cetyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether   Cyclobutaneethanol, 1-methyl-2-(1-methylethenyl)-, cis-   Cyclobutaneethanol   108-93-0   25904   3121   Solvent   Alcohol/Ether   Cyclobutaneethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether   Dimethyl ether   115-10-6   NA 132   2517   Solvent   Alcohol/Ether   Dimethyl ether   115-10-6   NA 132   2517   Solvent   Alcohol/Ether   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbiocide, Solvent,   Adjuvant,   Adjuvant,   Adjuvant,   Adjuvant   Alcohol/Ether		NA 657		878	Adjuvant	Alcohol/Ether
Butyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether		107-18-6	68401	3023	Herbicide	Alcohol/Ether
Butyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether		100-51-6	9502	915		Alcohol/Ether
Cetyl alcohol   36653-82-4   1508   2449   N/A   Alcohol/Ether	Butyl alcohol	78-92-2	1502	1482		Alcohol/Ether
Cinnamyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether				2449	N/A	
2-(1-methylethenyl)-, cis-  Cyclohexanol   108-93-0   25904   3121   Solvent   Alcohol/Ether		104-54-1	40512	NA 343	Insecticide	Alcohol/Ether
Denatured ethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether   Dimethyl ether   115-10-6   NA 132   2517   Solvent   Alcohol/Ether		30820-22-5	#####	NA 922	N/A	Alcohol/Ether
Dimethyl ether		108-93-0	25904	3121	Solvent	Alcohol/Ether
Ethyl alcohol   64-17-5   1501   8   Microbiocide, Solvent, Adjuvant, Adjuvant, Adjuvant, Adjuvant, Adjuvant, Adjuvant, Molluscicide   Fatty alcohols (100% C4-C10)   NA 126   NA 241   3654   Adjuvant   Alcohol/Ether   Fatty alcohols (55.10% C10, NA 1265   79089   NA 173   Plant Growth   Regulator, Adjuvant   C12, S8% C8, 1.01% C6, 1.01%   C12, 26%   67762-41-8   79056   NA 744   Adjuvant   Alcohol/Ether   C14, 8% C16, 1% C10)   Hydrocinnamyl alcohol   122-97-4   40511   NA 342   N/A   Alcohol/Ether   Isohutyl alcohol   3452-97-9   #####   NA 153   N/A   Alcohol/Ether   Isohutyl alcohol   78-83-1   1507   2622   Solvent   Alcohol/Ether   Isodecyl alcohol   25339-17-7   NA 168   3242   Solvent   Alcohol/Ether   Isothyl alcohol   67-63-0   47501   342   Microbiocide, Alcohol/Ether   Isothyl alcohol   112-53-8   1509   2343   Pheromone, Adjuvant   Alcohol/Ether   Alcohol/Ether   Lauryl alcohol   112-53-8   1509   2343   Pheromone, Alcohol/Ether   Alcohol/Ether			NA 129	2102	Solvent	Alcohol/Ether
Solvent, Adjuvant, Molluscicide   Adjuvant, Molluscicide   Fatty alcohols (100% C4-C10)   NA 126   NA 241   3654   Adjuvant   Alcohol/Ether   Fatty alcohols (55.10% C10, MA 1265   79089   NA 173   Plant Growth   Alcohol/Ether   Adjuvant   Alcohol/Ether   Regulator, Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Alc		115-10-6	NA 132	2517	Solvent	Alcohol/Ether
Fatty alcohols (100% C4-C10)	Ethyl alcohol	64-17-5	1501	8	Solvent, Adjuvant,	Alcohol/Ether
Fatty alcohols (55.10% C10, 42.88% C8, 1.01% C6, 1.01% C12)					Fumigant	Alcohol/Ether
A2.88% C8, 1.01% C6, 1.01% C12)   Regulator, C12)   Ratty alcohols (65% C12, 26% C14, 8% C16, 1% C10)   Hydrocinnamyl alcohol   122-97-4   40511   NA 342   N/A   Alcohol/Ether					Adjuvant	Alcohol/Ether
Fatty alcohols (65% C12, 26% C14, 8% C16, 1% C10)	42.88% C8, 1.01% C6, 1.01%	NA 1265	79089	NA 173	Regulator,	Alcohol/Ether
C14, 8% C16, 1% C10   Hydrocimamyl alcohol   122-97-4   40511   NA 342   N/A   Alcohol/Ether   i-Nonyl alcohol   3452-97-9   #####   NA 153   N/A   Alcohol/Ether   Isobutyl alcohol   78-83-1   1507   2622   Solvent   Alcohol/Ether   Isodecyl alcohol   25339-17-7   NA 168   3242   Solvent   Alcohol/Ether   Isopropyl alcohol   67-63-0   47501   342   Microbiocide, Solvent   Alcohol/Ether   Solvent   Isostearyl alcohol   27458-93-1   NA 156   2627   Adjuvant   Alcohol/Ether   Lauryl alcohol   112-53-8   1509   2343   Pheromone, Adjuvant   Alcohol/Ether   Alcohol/Ether   Methanol   67-56-1   53801   1018   Solvent, Adjuvant, Microbiocide   Methoxypropanol   107-98-2   NA 90   2675   Solvent   Alcohol/Ether   Myristyl alcohol   112-72-1   1510   2344   Pheromone, Fragrance   n-Butyl alcohol   71-36-3   NA 468   3077   Solvent   Alcohol/Ether   n-Decyl alcohol   112-30-1   79038   3124   Plant Growth   Regulator   Regulator   n-Propoxy propanol   30136-13-1   NA 798   2837   Solvent   Alcohol/Ether   n-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   Alcohol/Ether   Oleyl alcohol   143-28-2   NA 9   3313   Adjuvant   Alcohol/Ether   Alcohol/Ether   Oleyl alcohol   143-28-2   NA 9   3313   Adjuvant   Alcohol/Ether   Alcohol/Ethe						
i-Nonyl alcohol         3452-97-9         #####         NA 153         N/A         Alcohol/Ether           Isobutyl alcohol         78-83-1         1507         2622         Solvent         Alcohol/Ether           Isodecyl alcohol         25339-17-7         NA 168         3242         Solvent         Alcohol/Ether           Isopropyl alcohol         67-63-0         47501         342         Microbiocide, Solvent         Alcohol/Ether           Isostearyl alcohol         112-53-8         1509         2343         Pheromone, Adjuvant         Alcohol/Ether           Methanol         67-56-1         53801         1018         Solvent, Adjuvant, Microbiocide         Alcohol/Ether           Methoxypropanol         107-98-2         NA 90         2675         Solvent         Alcohol/Ether           Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether     <	C14, 8% C16, 1% C10)			NA 744	Adjuvant	Alcohol/Ether
Isobutyl alcohol   78-83-1   1507   2622   Solvent   Alcohol/Ether						Alcohol/Ether
Isodecyl alcohol   25339-17-7   NA 168   3242   Solvent   Alcohol/Ether				NA 153	N/A	Alcohol/Ether
Isopropyl alcohol   67-63-0   47501   342   Microbiocide, Solvent   Alcohol/Ether				2622	Solvent	Alcohol/Ether
Solvent   Isostearyl alcohol   27458-93-1   NA 156   2627   Adjuvant   Alcohol/Ether				3242		Alcohol/Ether
Lauryl alcohol   112-53-8   1509   2343   Pheromone, Adjuvant   Alcohol/Ether	,					Alcohol/Ether
Methanol   67-56-1   53801   1018   Solvent, Adjuvant   Alcohol/Ether						Alcohol/Ether
Methanol         67-56-1         53801         1018         Solvent, Adjuvant, Microbiocide         Alcohol/Ether           Methoxypropanol         107-98-2         NA 90         2675         Solvent         Alcohol/Ether           Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether           Oleyl alcohol         143-28-2         NA 9         3313         Adjuvant         Alcohol/Ether			1509	2343		
Methoxypropanol         107-98-2         NA 90         2675         Solvent         Alcohol/Ether           Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether           Oleyl alcohol         143-28-2         NA 9         3313         Adjuvant         Alcohol/Ether	Methanol	67-56-1	53801	1018	Solvent, Adjuvant,	
Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether           Oleyl alcohol         143-28-2         NA 9         3313         Adjuvant         Alcohol/Ether		107-98-2	NA 90	2675		Alcohol/Ether
n-Butyl alcohol   71-36-3   NA 468   3077   Solvent   Alcohol/Ether     n-Decyl alcohol   112-30-1   79038   3124   Plant Growth   Regulator     n-Propoxy propanol   30136-13-1   NA 798   2837   Solvent   Alcohol/Ether     n-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether     Oleyl alcohol   143-28-2   NA 9   3313   Adjuvant   Alcohol/Ether	Myristyl alcohol	112-72-1			Pheromone,	
n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether           Oleyl alcohol         143-28-2         NA 9         3313         Adjuvant         Alcohol/Ether	n-Butyl alcohol	71-36-3	NA 468	3077		Alcohol/Ether
n-Propoxy propanol 30136-13-1 NA 798 2837 Solvent Alcohol/Ether n-Propyl alcohol 71-23-8 47502 1603 Solvent Alcohol/Ether Oleyl alcohol 143-28-2 NA 9 3313 Adjuvant Alcohol/Ether					Plant Growth	
n-Propyl alcohol 71-23-8 47502 1603 Solvent Alcohol/Ether Oleyl alcohol 143-28-2 NA 9 3313 Adjuvant Alcohol/Ether	n-Propoxy propanol	30136-13-1	NA 798	2837		Alcohol/Ether
Oleyl alcohol 143-28-2 NA 9 3313 Adjuvant Alcohol/Ether						
		107-19-7	68702	NA 609	Breakdown	Alcohol/Ether

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	I In a Trans	T 61 : 161
	CARD TAILIBEE	Code	Code	Use Type	Chemical Class
		Code	Code		
Propylene oxide	75-56-9	42501	508	product	
sec-Butanol	75-65-0	<del></del>	1	Fumigant	Alcohol/Ether
Sec-butyl alcohol	78-92-2	1505	NA 64	Solvent	Alcohol/Ether
Stearyl alcohol		1502	3078	Solvent	Alcohol/Ether
Tetrahydro furfuryl alcohol	112-92-5	NA 110	2892	Adjuvant	Alcohol/Ether
	97-99-4	NA 945	3471	Solvent	Alcohol/Ether
Uzzdrania da di di di	150-39-0	39108	NA 330	Adjuvant	Chelating agent
Hydroxyethyl)ethylenediamine triacetic acid					
Dimethamine EDTA	274 167	-			····
EDTA	NA 167	NA 319	3159	Adjuvant	Chelating agent
	60-00-4	39101	1702	Adjuvant	Chelating agent
EDTA, ammonium salt	7379-26-2	39117	889	Adjuvant	Chelating agent
EDTA, diethanolamine salt	68133-37-9	NA 273	3187	Adjuvant	Chelating agent
EDTA, disodium salt	139-33-3	39115	2101	Herbicide,	Chelating agent
TID TIA 1: 1:				Adjuvant	
EDTA, disodium salt	139-33-3	39115	954	Herbicide,	Chelating agent
TDTA: 11:				Adjuvant	
EDTA, iron chelate	NA 890	NA 170	3240	Herbicide	Chelating agent
EDTA, monoethanolamine salt	7379-26-2	39117	2013	Adjuvant	Chelating agent
EDTA, monopotassium salt	7379-27-3	39111	NA 331	Adjuvant	Chelating agent
EDTA, potassium salt	NA 891	NA 170	3350	Adjuvant	Chelating agent
EDTA, sodium salt	17421-79-3	39103	1757	Adjuvant	Chelating agent
EDTA, tetrapotassium salt	5964-35-2	39118	1054	Adjuvant	Chelating agent
EDTA, tetrasodium salt	64-02-8	39107	759	Adjuvant	Chelating agent
EDTA, trisodium salt	150-38-9	39110	953	Adjuvant	Chelating agent
Ethanolamine	63517-71-5	39116	NA 334	Adjuvant,	Chelating agent
ethylenediaminetetraacetate		i		Fungicide	Choiating agent
N-(2-hydroxyethyl) ethylene	139-89-9	39109	911	Microbiocide,	Chelating agent
diamine triacetic acid, trisodium				Adjuvant	onoming agent
salt				<b>-</b>	
Nitrilotriacetic acid	139-13-9	NA 228	NA 228	Adjuvant	Chelating agent
Nitrilotriacetic acid, sodium	10042-84-9	######	NA 121	Adjuvant	Chelating agent
salt				J	
Sodium N-(2-	53404-54-9	39121	NA 335	Adjuvant	Chelating agent
hydroxyethyl)ethylenediaminet			l	•	
riacetate					
Tetra(monoethanolamine)	53404-52-7	39112	NA 332	Adjuvant,	Chelating agent
ethylenediaminetetraacetate	······································			Adjuvant	0 0 0
Triethylamine EDTA	NA 790	NA 146	3486	Adjuvant	Chelating agent
Triethylamine nitrilo triacetate	NA 537	NA 978	3487	Adjuvant	Chelating agent
Tripotassium	17572-97-3	39113	1177	Adjuvant	Chelating agent
ethylenediaminetetraacetate					
Trisodium nitrilo triacetate	5064-31-3	39106	1121	Adjuvant	Chelating agent
2,4,5-T, butoxyethanol ester	2545-59-7	82053	819	Herbicide	Chlorophenoxy acid
0.4.7.1					or ester, Glycol Ether
2,4-D, butoxyethanol ester	1929-73-3	30053	802	Herbicide	Chlorophenoxy acid
2 (0 7)					or ester, Glycol Ether
2-(2-Butoxyethoxy)ethanol	112-34-5	11502	NA 117	Solvent	Alcohol/Ether,
4 (0 4 77)					Glycol Ether
4-(2,4-DB), butoxyethanol	32357-46-3	30853	837	Herbicide	Chlorophenoxy acid
ester					or ester, Glycol Ether
Alkylaryl polyglycol ether	NA 319	NA 599	1264	Adjuvant	Polyalkyloxy
			į		Compound, Glycol
Ciaranta					Ether
Cinoxate	104-28-9	76604	NA 706	N/A	Glycol Ether

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Ties Trues	01 : 1 01
<u>Greindar Tumic</u>	CAS Number	Code	Code	Use Type	Chemical Class
Dichlorprop, butoxyethanol	53404-31-2	31453	923	Plant Growth	Chlomombon
ester	33404-31-2	31433	923	Regulator,	Chlorophenoxy acid or ester, Glycol Ether
				Herbicide	of ester, Glycol Ether
Diethylene glycol monoethyl	111-90-0	11504	2505	Adjuvant,	Glycol Ether
ether				Solvent	Glycol Editer
Diethylene glycol monomethyl	111-77-3	42204	2506	Adjuvant,	Glycol Ether
ether				Solvent	Cayour Editor
Ethoxyethoxyethyl 2,4-	53404-36-7	30058	NA 245	Herbicide	Chlorophenoxy acid
dichlorophenoxyacetate			_		or ester, Glycol Ether
Ethyl amino benzoate	111-15-9	NA 260	3192	N/A	Glycol Ether
Ethylene glycol, mono-butyl	111-76-2	11501	1880	Solvent,	Glycol Ether
ether				Adjuvant	
Haloxyfop-etotyl (unstated	87237-48-7	NA 200	NA 199	Herbicide	Aryloxyphenoxy
stereochemistry)					propionic acid,
MCPA, butoxyethanol ester	10400 42 4	20552			Glycol Ether
MCPA, butoxyethanol ester	19480-43-4	30553	785	Herbicide	Chlorophenoxy acid
Silvex, butoxyethanol ester	19398-13-1	90552	000		or ester, Glycol Ether
Shvex, butoxyethanor ester	19398-13-1	82553	828	Herbicide	Chlorophenoxy acid
Triclopyr, butoxyethyl ester	64700-56-7	#####	2170	TT1-1-1-1	or ester, Glycol Ether
Thotopyi, butoxyemyi ester	04700-30-7	######	21/0	Herbicide	Chloropyridinyl,
(Decyl oxy) poly (oxy	9038-29-3	NA 117	3636	Adjuvant	Glycol Ether
ethylene) poly (oxy propylene)	7030-27-3	IVA II/	2020	Adjuvant	Polyalkyloxy
(Octyl oxy) poly (oxyethylene)	61827-84-7	NA 102	3707	Adjuvant	Compound Polyalkyloxy
poly (oxypropylene)	0102, 01,	111102	3707	Adjuvant	Compound
2,6,8-trimethyl-4-nonyloxy	NA 1162	NA 175	5599	Adjuvant	Polyalkyloxy
polyethylene oxyethanol			00))	1 I C J C V C I I I	Compound
4-nonyl phenoxy poly	NA 805	NA 149	3698	Soap/Surfactant	Polyalkyloxy
(ethylene oxy) ethyl phosphate,				, Adjuvant	Compound
magnesium salt				, ,	
a-(p-nonylphenyl)-omega-	NA 27	NA 40	2066	Microbiocide	Polyalkyloxy
hydroxypoly (oxyethylene)					Compound
with an average of 4.2 moles of				ĺ	•
ethylene oxide.the nonly group					
is a propylene					
a-(p-nonylphenyl)-omega-	NA 28	NA 41	2052	Microbiocide	Polyalkyloxy
hydroxypoly (oxyethylene)					Compound
with an averageof 9-10 moles of ethylene oxide					
Alkenoic acid poly oxyalkylene	NIA 206	374 510	22.51		
ether & alkyl poly oxyalkylene	NA 396	NA 718	2364	Adjuvant	Polyalkyloxy
ether					Compound
Alkoxy poly (ethyleneoxy)	NA 286	NA 555	1390	A	D 1 11 1
ethyl phosphate	11A 200	14A 333	1390	Adjuvant, Soap/Surfactant	Polyalkyloxy
Alkyl (100% C10-C13) oxy	NA 288	NA 560	3575	Adjuvant,	Compound
poly (ethylene oxy) ethyl			22,2	Soap/Surfactant	Polyalkyloxy Compound
phosphate, mono-	ļ	]		Soup/ Surfactatit	Compound
Alkyl (100% C10-C14) oxy	68585-36-4	NA 579	3574	Adjuvant,	Polyalkyloxy
poly (ethylene oxy) ethyl				Soap/Surfactant	Compound
phosphate				up our mount	Compound
Alkyl (100% C11-C15)	68131-40-8	79084	3572	Insecticide,	Polyalkyloxy
phenoxypoly (ethylene oxy)			· <b>-</b>	Fungicide,	Compound
ethanol		1		Avicide,	pound
				Adjuvant	Į
Alkyl (C8,C10) polyglycoside	68515-73-1	NA 154	4015	Adjuvant	Polyalkyloxy
					Compound
					·····

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	3,13,1,44,00,	Code	Code	OSC TYPE	Chemical Class
Alkyl and alkylaryl poly	NA 398	NA 720	1706	Adjuvant	Polyalkyloxy
(oxyethylene) glycols, mixed				]	Compound
Alkyl aryl alkoxylate	NA 314	NA 594	2366	Adjuvant	Polyalkyloxy
					Compound
Alkyl aryl polyoxyalkane ether	NA 323	NA 603	2370	Adjuvant	Polyalkyloxy
and free fatty acids					Compound
Alkyl oxy poly (ethyleneoxy)	NA 679	NA 125	1715	Adjuvant,	Polyalkyloxy
ethyl phosphate	271 006			Soap/Surfactant	
Alkyl oxy polyethoxy ethanol	NA 306	NA 578	2048	Adjuvant	Polyalkyloxy
Alkyl oxy-polyoxyethylene and	NA 289	NA 561	0126	A 11 .	Compound
alkyl phenyloxy-	NA 209	NA 301	2136	Adjuvant	Polyalkyloxy
polyoxyethylene		ļ.	•		Compound
Alkyl phenoxy poly (ethoxy)	NA 291	NA 563	1173	Adjuvant	Polyalkyloxy
ethanol		1	11/5	11djuvani	Compound
Alkyl phenyl poly (ethoxy)	NA 294	NA 566	1064	Adjuvant	Polyalkyloxy
ethanol			·	J	Compound
Alkyl polyethylene glycol ether	NA 668	NA 123	1376	Adjuvant,	Polyalkyloxy
				Soap/Surfactant	Compound
Alkyl polyoxy alkylene ether	NA 295	NA 567	2123	Adjuvant	Polyalkyloxy
					Compound
Alkyl polyoxy ethylene ether,	NA 592	NA 107	2014	Adjuvant	Polyalkyloxy
diphosphoric acid ester.	371 005				Compound
Alkyl polyoxy ethylene ether,	NA 296	NA 568	2377	Adjuvant	Polyalkyloxy
free fatty acids Alkyl polyoxy ethylene ether,	NA 694	NIA 107	2016		Compound
monophosphoric acid ester	NA 094	NA 127	2015	Adjuvant	Polyalkyloxy
Alkyl polyoxy ethylene ethers,	NA 297	NA 569	2158	A di	Compound
polymerized resins and fatty	NA 231	NA 309	2136	Adjuvant	Polyalkyloxy Compound
acids					Сопроша
Alkyl polyoxy ethylene glycols	NA 285	NA 554	2051	Adjuvant	Polyalkyloxy
				110,010.	Compound
Alkylaryl hydroxypoly	NA 316	NA 596	2037	Adjuvant	Polyalkyloxy
(oxyethylene) ethanol					Compound
Alkylaryl poly(oxyethylene)	NA 315	NA 595	748	Adjuvant	Polyalkyloxy
glycol					Compound
Alkylaryl polyalkoxylated	NA 705	NA 129	2174	Adjuvant	Polyalkyloxy
alcohols	27. 77.4	371 400			Compound
Alkylaryl polyethoxy ethanol phosphate	NA 714	NA 130	2368	Adjuvant,	Polyalkyloxy
Alkylaryl polyethoxyethanol	NA 912	NA 174	5222	Soap/Surfactant	Compound
sulfates	14A 714	INA 1/4	5323	Adjuvant	Polyalkyloxy Compound
Alkylaryl polyethylene glycol	NA 318	NA 598	2198	Adjuvant,	
ether	2 2 4 0	1121 000	2170	Soap/Surfactant	Polyalkyloxy Compound
Alkylaryl polyglycol ester	NA 1470	NA 218	NA 218	Adjuvant	Polyalkyloxy
					Compound
Alkylaryl polyglycol ether	NA 319	NA 599	1264	Adjuvant	Polyalkyloxy
				<b>3</b>	Compound, Glycol
	· · · · · · · · · · · · · · · · · · ·				Ether
Alkylaryl polyoxy glycol	NA 322	NA 602	2369	Adjuvant	Polyalkyloxy
A 11 1					Compound
Alkylaryl polyoxyethylene	NA 320	NA 600	881	Adjuvant	Polyalkyloxy
ether	NA 201	374 601	0004		Compound
Alkylaryl polyoxyethylene glycol phosphate ester	NA 321	NA 601	2024	Adjuvant,	Polyalkyloxy
Alkylaryl poyloxyethylene	NA 671	NA 124	1507	Soap/Surfactant	Compound
	11/1 0/1	11A 124	120/	Adjuvant	Polyalkyloxy

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC Type	Chemical Class
ethanol					Compound
Alkylpoly glycol ether	NA 292	NA 564	1172	Adjuvant	Polyalkyloxy
					Compound
Allyl oxy poly ethylene glycol	NA 279	NA 545	2376	N/A	Polyalkyloxy
monoallyl acetate					Compound
Alpha (para-tert-butyl phenyl)-	NA 235	NA 463	1605	Adjuvant	Polyalkyloxy
omega-hydroxypoly			]	-	Compound
(oxyethylene)-			ļ		
Alpha (para-tert-butylphenyl)-	NA 234	NA 462	1786	Adjuvant	Polyalkyloxy
omega-hydroxypoly			ļ		Compound
(oxyethylene) Alpha-(omega-sec-butyl	274 021	271 475			
phenylpoly (oxypropylene))-	NA 231	NA 452	1885	Adjuvant	Polyalkyloxy
omega-hydroxypoly			•		Compound
Alpha-(p-(1,1,3,3-tetramethyl	NA 609	374 111	1000		
butyl) phenyl)-omega-hydroxy	NA 609	NA 111	1932	Adjuvant	Polyalkyloxy
poly					Compound
Alpha-(p-nonylphenyl)-omega-	NA 745	NA 135	2710	4 11	
hydroxy poly (oxypropylene)	NA 745	NA 155	2710	Adjuvant	Polyalkyloxy
Alpha-(para-nonyl phenyl)-	NA 18	NA 31	1649	A 4:	Compound
omega-hydroxy poly	142.10	IVA 31	1049	Adjuvant	Polyalkyloxy
(oxyethylene)					Compound
Alpha-alkyl (43%C10,	NA 684	NA 126	1834	Microbiocide	Delau-111
30%C14, 12%C12, 10%C16,	141 00 1	1171 120	1054	Micropiocide	Polyalkyloxy
5%C18) poly (oxyethylene)					Compound
poly (oxypropylene) - I2					
complex					
Alpha-alkyl (C10-C12)-omega-	NA 307	NA 582	2077	Adjuvant	Polyalkyloxy
hydroxypoly (oxyethylene)					Compound
Alpha-alkyl (C10-C18)-	NA 301	NA 573	1700	Adjuvant	Polyalkyloxy
omega-hydroxypoly					Compound
(oxyethylene) sulfate					* * *****
150 solvent neutral BP 901	NA 747	NA 136	2724	Insecticide	Petroleum derivative
base oil					
Alkylated aromatic petroleum	68919-17-5	54001	NA 451	Insecticide,	Petroleum derivative
oil				Adjuvant	
Amoco 6342	NA 715	NA 131	2384	N/A	Petroleum derivative
Anthracene oil	120-12-7	NA 185	NA 184	Insecticide,	Petroleum derivative
				Herbicide,	
Aromatic 100	274.060			Rodenticide	
Afomatic 100	NA 269	NA 524	2394	Insecticide,	Petroleum derivative
Aromatic 150	NIA 716	374 101		Solvent	
Atoliatic 150	NA 716	NA 131	2395	Insecticide,	Petroleum derivative
Aromatic 200	64742.04.5	6600	2224	Solvent	
Atomatic 200	64742-94-5	6602	2396	Insecticide,	Petroleum derivative
Asphalt solids	8052-42-4	22001	1140	Solvent	
Bitumen		22001	1140	Pruning Aid	Petroleum derivative
Candle wax	8052-42-4	22002	NA 171	N/A	Petroleum derivative
Chevron 100 neutral oil	NA 227	NA 440	2443	N/A	Petroleum derivative
Chevron base oil "C"	68602-80-2	6601	2456	Insecticide	Petroleum derivative
	NA 224	NA 431	2455	Insecticide	Petroleum derivative
Chevron solvent 425	NA 722	NA 132	2457	Solvent	Petroleum derivative
Coal tar distillate boiling	65996-91-0	6101	5042	Insecticide,	Petroleum derivative
between 270-300 deg C	0005 :			Herbicide	
Coal tar hydrocarbons	8007-45-2	22003	1719	Wood	Petroleum derivative
L				Preservative	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u>OSC TYPC</u>	Chemical Class
Coal tar neutral oils and coal	65996-82-9	25001	144	Insecticide,	Petroleum derivative
tar acid combinations				Herbicide	
Coal tar phenols	1319-77-3	22101	1720	N/A	Petroleum derivative,
					Phenols Phenols
Coal tar pitch >351	65996-93-2	#####	NA 106	Insecticide	Petroleum derivative
deg.C(AWPI) Conoco LPA	NA 195	NIA 206	0.470		
Creosote	8001-58-9	NA 386 25004	2478	N/A	Petroleum derivative
Creosote	8001-38-9	25004	171	Wood	Petroleum derivative
Creosote oil (note: derived	61789-28-4	25003	NA 203	Preservative Wood	D. 1 1
from any source)	01703-20-4	23003	NA 203	Preservative,	Petroleum derivative
, , , , , , , , , , , , , , , , , , , ,	•			Fungicide	
Cumene	98-82-8	NA 105	3116	N/A	Petroleum derivative
Cyclohexane	110-82-7	25901	2087	Solvent	Petroleum derivative
Diesel fuel no. 2	68476-34-6	63514	3923	Insecticide,	Petroleum derivative
				Adjuvant	1 odolodin delivative
Ethyl benzene	100-41-4	NA 142	3197	N/A	Petroleum derivative
Ethylene	74-85-1	41901	270	Plant Growth	Petroleum derivative
				Regulator	
Fuel oil #1	70892-10-3	63511	NA 520	N/A	Petroleum derivative
Fuel oil #2	68476-30-2	63505	NA 517	N/A	Petroleum derivative
Fuel oil #4	68476-31-3	63512	NA 521	N/A	Petroleum derivative
Fuel oil #6	68553-00-4	63513	NA 522	N/A	Petroleum derivative
Gasoline	NA 945	NA 221	1899	N/A	Petroleum derivative
Heavy oil (coal) 301-350 deg.C (AWPI)	90640-86-1	#####	NA 106	N/A	Petroleum derivative
Hydrotreated paraffinic solvent	NA 91	NA 182	2601	Solvent	Petroleum derivative
Isobutane	75-28-5	97101	2621	Propellant	Petroleum derivative
Isoparaffin, C11-C12	NA 85	NA 163	2623	N/A	Petroleum derivative
Isoparaffin, C12-C14	NA 86	NA 164	2624	N/A	Petroleum derivative
Isoparaffinic hydrocarbons	64771-72-8	#####	1641	N/A	Petroleum derivative
Isopentane	78-78-4	NA 165	3244	Solvent	Petroleum derivative
Jet fuel	94114-58-6	63515	NA 523	Insecticide, Solvent	Petroleum derivative
Kerosene	8008-20-6	63501	2071	Insecticide	Petroleum derivative
KM spray oil	NA 78	NA 150	2631	N/A	Petroleum derivative
Ligroin	8032-32-4	63506	2642	Solvent	Petroleum derivative
Low molecular weight	64642-47-8	NA 173	5252	Insecticide	Petroleum derivative
paraffinic oil			0.202	Miscottorac	1 cuolcum denvadve
MCIAL code 401	64742-55-8	63503	2045	Insecticide,	Petroleum derivative
Mineral oil	8012-95-1	63502	401	Adjuvant Insecticide,	Petroleum derivative
				Adjuvant	
Mineral oil, petroleum distillates, solvent refined light	64741-89-5	63503	3846	Herbicide,	Petroleum derivative
distillates, solvent refined light				Plant Growth	
				Regulator,	
				Insecticide,	
Mineral oil, petroleum extract,	64724-04-7	NA 171	3847	Adjuvant Insecticide,	Potroloum desired:
heavy paraffinic distillate	0	*14 * 1/1	2077	Adjuvant	Petroleum derivative
Mineral seal oil	NA 930	NA 67	2687	Insecticide,	Petroleum derivative
				Adjuvant	- Judioum dollyanye
Mineral spirits	8032-32-4	63506	2688	Insecticide,	Petroleum derivative
				Solvent,	
L				Fungicide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Ioo Trans	
3.000.000	Crib i vamber	Code	Code	Use Type	Chemical Class
n-Hexane	110-54-3	NA 103	3227	Solvent	Petroleum derivative
Naphtha, heavy aromatic	64742-94-5	6602	1717	Insecticide,	Petroleum derivative
				Solvent	
Orchex 796 oil	NA 899	NA 172	5179	Insecticide,	Petroleum derivative
Paraffin wax	8000 74 0	371 405		Adjuvant	
Paraffin waxes (petroleum)	8002-74-2	NA 107	1214	Rodenticide	Petroleum derivative
hydrotreated	64742-51-4	NA 694	3545	N/A	Petroleum derivative
Paraffin waxes and	61788-76-9	NA 693	3721	N/A	Petroleum derivative
hydrocarbon waxes,		141.055	3,21	IV/A	retroleum derivative
chlorinated					·
Pentane	109-66-0	98001	469	Solvent	Petroleum derivative
Petroleum derivative resin	64742-16-1	11401	1411	N/A	Petroleum derivative
Petroleum distillates	2227378	63503	763	Insecticide	Petroleum derivative
Petroleum distillates, aliphatic	2227378	63503	2768	Insecticide,	Petroleum derivative
				Adjuvant,	
Petroleum distillates, aromatic	68477-31-6	6501	1814	Solvent,	D-4-1 1 1 1 1
	00177 51-0	0501	1014	Herbicide,	Petroleum derivative
	· ,			Insecticide	
Petroleum distillates, refined	64741-51-1	NA 654	2106	Insecticide	Petroleum derivative
Petroleum hydrocarbons	8012-95-1	63502	473	Insecticide,	Petroleum derivative
Detro Isaac is IIsaac	2020055			Solvent	
Petroleum jelly	2229873	#####	1443	Insect	Petroleum derivative
				Repellent,	
Petroleum naphthenic oils	NA 990	NA 655	2107	Adjuvant Insecticide,	Detugles 1 's 1'
	1112330	1421 055	2107	Adjuvant	Petroleum derivative
Petroleum oil, unclassified	68815-10-1	NA 121	765	Insecticide,	Petroleum derivative
				Herbicide,	- outoionin donivunivo
				Fungicide,	
Petroleum sulfonates	61790 05 2	200000		Adjuvant	
Petroleum, unrefined	61789-85-3 2227378	#####	766	N/A	Petroleum derivative
l odolodin, differince	2221310	63503	1730	Insecticide, Adjuvant	Petroleum derivative
Polybutenes	9003-29-6	11402	1040	Rodenticide	Petroleum derivative
Polyisobutylene	9003-27-4	11403	1561	Rodenticide	Petroleum derivative
Propane	74-98-6	NA 109	2832	Propellant	Petroleum derivative
Propylene	1150-70-1	NA 800	2838	N/A	Petroleum derivative
Solvent naphtha (coal),150-200	65996-79-4	#####	NA 106	Solvent	Petroleum derivative
deg. C					
Solvent naphtha (petroleum), light aromatic	64742-95-6	86803	3804	Solvent	Petroleum derivative
Summer oil	NA 1468	NA 218	NIA 210	*	
Junior on	11A 1400	NA 216	NA 218	Insecticide, Adjuvant	Petroleum derivative
Sun superior spray oil 7N	NA 769	NA 139	2902	Insecticide,	Petroleum derivative
				Adjuvant	1 choledin derivative
Synthetic beeswax	NA 509	NA 920	2910	N/A	Petroleum derivative
Tar	NA 1312	22004	NA 176	Wood	Petroleum derivative
				Preservative	
Tar acid oil	NA 1041	NA 139	2914	Insecticide	Petroleum derivative
Toluene Turpentine	108-88-3	80601	1281	Solvent	Petroleum derivative
1 uipenime	8006-64-2	84501	605	Insecticide,	Petroleum derivative
White mineral oil	8042-47-5	63510	NA 519	Adjuvant	Dotteller 1 1 1
	00.2 47-5	03310	MW 213	Insecticide, Adjuvant	Petroleum derivative
		<del></del>	<del> </del>	1 rejuvant	L

Code	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Winter oil   NA 1472   NA 219   NA 218   Adjuvant   Petroleum derivative   Xylene   1330-20-7   86802   622   Solvent, Microbiocide   Petroleum derivative   Xylene range aromatic solvent   6892-06-9   NA 102   862   Solvent, Insecticide   Insecticide					<u> </u>	Chemical Class
Xylene	Winter oil	NA 1472	NA 219		Adjuvant	Petroleum derivative
Microbiocide   Microbiocide   Solvent   G8920-06-9   NA 102   862   Solvent   Insecticide   Solvent   G8920-06-9   NA 102   862   Solvent   Insecticide   Solvent   G8920-06-9   NA 104   Solvent   G8920-06-9   NA 104   Solvent   G8920-06-9   NA 104   Solvent   G8920-06-9   NA 104   Solvent   G8920-06-9   NA 104   Solvent   G8920-06-9   NA 104   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   Solvent   Solvent   Solvent   G8920-06-9   NA 104   Solvent   Solvent   Solvent   Solvent   Solvent   G8920-06-9   NA 104   Solvent	Xylene	1330-20-7	86802			
3-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate   NA 90						
3-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, actate   NA 90	Xylene range aromatic solvent	68920-06-9	NA 102	862		Petroleum derivative
methyl trisiloxane, ethoxylated, acetate   Compounded silicone   NA 703   NA 129   2124   Adjuvant   Silicone   Dimethyl poly siloxane   63148-62-9   NA 104   1861   Insecticide,   Silicone   Adjuvant   Dimethyl silicone fluid   emulsion   NA 696   NA 128   2028   Adjuvant   Silicone   Adjuvant   Silicone   Adjuvant   Silicone   Ma 128   Ma					Insecticide	
Compounded silicone		NA 90	NA 178	2610	Adjuvant	Silicone
Compounded silicone	1					
Dimethyl poly siloxane		271 702	371 400			
Dimethyl silicone fluid emulsion			<del></del>			
Dimethyl silicone fluid emulsion	Dimethyl poly siloxane	63148-62-9	NA 104	1861		Silicone
Dow Corning antifoam Y-30	Dimethyl cilicone fluid	NA 606	NA 100	2000		
Dow Corning antifoam Y-30   NA 146   NA 280   2539   Adjuvant   Silicone		NA 090	NA 128	2028	Adjuvant	Silicone
Dow Corning DB-110A-		NA 146	NA 280	2520	A 4:	0:1:
Dow Corning DB-110A- antifoam emulsion   Heptamethyltrisiloxane   67674-67-3   NA 153   4009   Adjuvant   Silicone   ethoxylated (8 EO)   Methyl silicone resins   9016-00-6   NA 77   3689   Adjuvant   Silicone   Methylated silica   67762-90-7   NA 173   5292   N/A   Silicone   Organo/modified polysiloxane   37281-78-0   NA 153   3997   Adjuvant   Silicone   Organosilicone, poly   67762-85-0   NA 173   5231   Adjuvant   Silicone   Organosilicone, poly   67762-85-0   NA 173   5231   Adjuvant   Silicone   Organosilicone, poly   67762-85-0   NA 173   5231   Adjuvant   Silicone   Organosilicone, poly   67762-85-0   NA 173   5231   Adjuvant   Silicone   Polyalkene oxide modified   27306-78-1   NA 146   3520   Adjuvant   Silicone   Polyalkyleneoxide modified   NA 904   NA 172   5203   Adjuvant   Silicone   Polyether modified   NA 906   NA 172   5223   Adjuvant   Silicone   Polysiloxane   Polysiloxane   NA 1337   NA 180   5718   Adjuvant   Silicone   Silicone   NA 815   NA 150   3796   Adjuvant   Silicone   Silicone   NA 815   NA 150   3796   Adjuvant   Silicone   Silicone   Adjuvant   Silicone   Silicone   Adjuvant   Silicone   NA 462   NA 326   1917   Adjuvant   Silicone   Silicone   NA 463   NA 827   2854   N/A   Silicone   Silicone   NA 463   NA 827   2854   N/A   Silicone   NA 1010   NA 948   3472   Microbiocide,   Adjuvant,   Fungicide,   Insecticide		142140	NA 200	2339	Adjuvant	Silicone
Antifoam emulsion		NA 577	NA 104	2540	Adinyant	Silicono
Silicone				2510	2 rajavant	Sincone
ethoxylated (8 EO)		67674-67-3	NA 153	4009	Adiuvant	Silicone
Methylated silica         67762-90-7         NA 173         5292         N/A         Silicone           Organo/modified polysiloxane         37281-78-0         NA 153         3997         Adjuvant         Silicone           Organosilicone, poly oxyalkylene ether copolymer         67762-85-0         NA 173         5231         Adjuvant         Silicone           Polyalkene oxide modified heptamethyl trisiloxane         27306-78-1         NA 146         3520         Adjuvant         Silicone           Polyather modified polydimethyl-siloxane         NA 904         NA 172         5223         Adjuvant         Silicone           Polyether modified polysiloxane         NA 906         NA 172         5223         Adjuvant         Silicone           Polysiloxane         NA 1337         NA 180         5718         Adjuvant         Silicone           Silicone defoamer         NA 462         NA 815         NA 150         3796         Adjuvant         Silicone           Silicone mold release agent SM 2140         Silicone MA 827         2854         N/A         Silicone           Silicone-polyether copolymer         27306-78-1         NA 151         3841         Adjuvant         Silicone           Trimethyl siloxy stearate         NA 541         NA 987         2965					,	SINCOING
Organo/modified polysiloxane   37281-78-0   NA 153   3997   Adjuvant   Silicone   Organosilicone, poly oxyalkylene ether copolymer   Folyalkene oxide modified heptamethyl trisiloxane   Polyalkyleneoxide modified heptamethyl trisiloxane   Polyalkyleneoxide modified polydimethyl-siloxane   NA 904   NA 172   5203   Adjuvant   Silicone   Silicone   Polyalkyleneoxide modified polydimethyl-siloxane   Polyether modified polydimethyl-siloxane   NA 906   NA 172   5223   Adjuvant   Silicone   Polysiloxane   NA 1337   NA 180   5718   Adjuvant   Silicone   Silicone   Silicone   NA 815   NA 150   3796   Adjuvant   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   Silicone   NA 462   NA 826   1917   Adjuvant   Silicone   Silicone   Silicone   Polysiloxane   NA 463   NA 827   2854   N/A   Silicone   Soap   Silicone   Soap   S				3689	Adjuvant	Silicone
Organosilicone, poly oxyalkylene ether copolymer   67762-85-0   NA 173   5231   Adjuvant   Silicone			NA 173	5292	N/A	Silicone
Oxyalkylene oxide modified heptamethyl trisiloxane				3997	Adjuvant	Silicone
Polyalkene oxide modified heptamethyl trisiloxane Polyalkyleneoxide modified polydimethyl-siloxane Polyalkyleneoxide modified polydimethyl-siloxane Polyether modified NA 906 NA 172 5203 Adjuvant Silicone Polysiloxane Polysiloxane NA 1337 NA 180 5718 Adjuvant Silicone Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140 Silicone-polyether copolymer 27306-78-1 NA 151 3841 Adjuvant Silicone Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  NA 1010 NA 948 3472 Microbiocide, Soap Adjuvant, Fungicide, Insecticide  1,3-propane diamine dodecyl benzene sulfonate  NA 1161 NA 175 1741 Microbiocide, Soap  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap		67762-85-0	NA 173	5231	Adjuvant	Silicone
Polyalkyleneoxide modified polydimethyl-siloxane Polysether modified polysiloxane Polysiloxane Polysiloxane NA 906 NA 172 S223 Adjuvant Silicone Polysiloxane Polysiloxane NA 1337 NA 180 S718 Adjuvant Silicone Silicone NA 815 NA 150 Silicone Silicone defoamer NA 462 NA 826 Silicone mold release agent SM 2140 Silicone-polyether copolymer Trimethyl siloxy stearate NA 541 NA 987 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  NA 1010 NA 1021 NA 105 NA 105 NA 105 NA 107 NA 107 NA 107 NA 107 NA 108 NA 107 NA 108 NA 109						
Polyalkyleneoxide modified polydimethyl-siloxane Polyether modified polysiloxane NA 906 NA 172 5223 Adjuvant Silicone Polysiloxane NA 1337 NA 180 5718 Adjuvant Silicone Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140 Silicone-polyether copolymer 27306-78-1 NA 151 3841 Adjuvant Silicone Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 101 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant  Silicone Silicon		27306-78-1	NA 146	3520	Adjuvant	Silicone
Polyether modified polysiloxane Polysiloxane NA 1337 NA 180 5718 Adjuvant Silicone Polysiloxane NA 1337 NA 180 5718 Adjuvant Silicone Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140 Silicone-polyether copolymer 27306-78-1 NA 151 3841 Adjuvant Silicone Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  NA 1010 NA 948 3472 Microbiocide, Adjuvant, Fungicide, Insecticide 1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide 2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide 2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant Soap		774 004	771 455			
Polysther modified polysiloxane  Polysiloxane  NA 1337 NA 180 5718 Adjuvant Silicone Silicone Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone MA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140 Silicone-polyether copolymer Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  NA 1010 NA 948 3472 Microbiocide, Adjuvant, Fungicide, Insecticide  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) 68084-55-9 NA 538 3034 Microbiocide, Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap		NA 904	NA 172	5203	Adjuvant	Silicone
Polysiloxane Polysiloxane NA 1337 NA 180 Silicone Silicone NA 815 NA 150 Silicone Silicone defoamer NA 462 NA 826 NA 826 NA 826 NA 827 Silicone mold release agent SM 2140 Silicone-polyether copolymer Trimethyl siloxy stearate NA 541 NA 987 NA 151 NA 151 NA 151 NA 151 NA 151 NA 151 Silicone Silicone NA 463 NA 827 Silicone  Trimethyl siloxy stearate NA 541 NA 987 NA 987 NA Silicone NA 1010 NA 948 NA 1010 NA 948 NA 1010 N		NA 006	NTA 172	5000	A 10	
Polysiloxane NA 1337 NA 180 5718 Adjuvant Silicone Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140 Silicone-polyether copolymer 27306-78-1 NA 151 3841 Adjuvant Silicone Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone 1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1010 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Soap Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant Soap		NA 900	NA 1/2	5223	Adjuvant	Silicone
Silicone NA 815 NA 150 3796 Adjuvant Silicone Silicone defoamer NA 462 NA 826 1917 Adjuvant Silicone Silicone mold release agent SM 2140  Silicone mold release agent SM 2140  Silicone mold release agent SM 2140  Silicone mold release agent SM 2140  Silicone mold release agent SM 2140  Silicone mold release agent SM NA 463 NA 827 2854 N/A Silicone  Silicone mold release agent SM NA 463 NA 827 2854 N/A Silicone  Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone  1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  NA 1010 NA 948 3472 Microbiocide, Adjuvant, Fungicide, Insecticide  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant Soap		NA 1337	NA 180	5718	Adingent	Cilianna
Silicone defoamer NA 462 NA 826 Silicone mold release agent SM 2140 Silicone mold release agent SM 2140 Silicone-polyether copolymer Trimethyl siloxy stearate NA 541 NA 987 NA 987 NA 151 NA 152 NA 1536 NA 1538 NA 1						
Silicone mold release agent SM 2140  Silicone-polyether copolymer 27306-78-1 NA 151 3841 Adjuvant Silicone  Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone  1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  1,3-propane diamine dodecyl benzene sulfonate  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant Soap						
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Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone  1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant  Soap  NA 538 Silicone  NA Silicone  NA Silicone  Soap  Adjuvant, Fungicide, Insecticide  Soap  Adjuvant, Fungicide, Insecticide  Soap  Adjuvant, Fungicide, Insecticide  Soap			1111027	2054	IVA	Sincone
Trimethyl siloxy stearate NA 541 NA 987 2965 N/A Silicone  1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant  Soap  NA 538 Silicone  NA Silicone  NA Silicone  Soap  Adjuvant, Fungicide, Insecticide  Soap  Adjuvant, Fungicide, Insecticide  Soap  Adjuvant, Fungicide, Insecticide  Soap	Silicone-polyether copolymer	27306-78-1	NA 151	3841	Adiuvant	Silicone
1,1,2,3-tetramethyl butylamine dodecyl benzene sulfonate  NA 1010  NA 948  3472  Microbiocide, Adjuvant, Fungicide, Insecticide  1,3-propane diamine dodecyl benzene sulfonate  NA 1021  NA 115  3369  Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Soap  Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911  NA 174  5322  Soap/Surfactant  Soap	Trimethyl siloxy stearate	NA 541				
dodecyl benzene sulfonate  1,3-propane diamine dodecyl benzene sulfonate  NA 1021 NA 115 3369 Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161 NA 175 1741 Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911 NA 174 5322 Soap/Surfactant  Soap	1,1,2,3-tetramethyl butylamine	NA 1010				
Tungicide, Insecticide   Ins	dodecyl benzene sulfonate			·		Боар
1,3-propane diamine dodecyl benzene sulfonate  NA 1021  NA 115  3369  Microbiocide, Adjuvant, Fungicide, Insecticide  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911  NA 174  S369  Microbiocide, Adjuvant, Fungicide, Insecticide  NA 175  Soap  Microbiocide, Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants  NA 911  NA 174  S322  Soap/Surfactant  Soap		·				
benzene sulfonate  2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Adjuvant, Fungicide, Insecticide  NA 538  3034  Microbiocide, Adjuvant, Fungicide, Insecticide  Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants  NA 911  NA 174  5322  Soap/Surfactant  Soap				· · · · · · · · · · · · · · · · · · ·		
2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911  NA 174  Soap  NA 174  Soap/Surfactant  Soap		NA 1021	NA 115	3369		Soap
2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911  NA 174  Insecticide  Microbiocide, Adjuvant, Fungicide, Insecticide  NA 538  Soap  Adjuvant, Fungicide, Insecticide  Soap	benzene suitonate					
2,2-oxybis (4-dodecyl benzene sulfonate)  NA 1161  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  NA 911  NA 174  Soap  NA 175  1741  Microbiocide, Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants  NA 911  NA 174  Soap  Soap	·					
sulfonate)  Soap  Adjuvant, Fungicide, Insecticide  2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Adjuvant, Fungicide, Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants  NA 911  NA 174  Soap  Soap Soap/Surfactant Soap	2 2-oxybis (4-dodecyl bengene	NIA 1161	NIA 175	1741		
2-((2-amino ethyl) amino) 68084-55-9 NA 538 3034 Microbiocide, Insecticide ethanol dodecyl benzene sulfonate NA 911 NA 174 5322 Soap/Surfactant Soap		NA 1101	NA 175	1/41		Soap
2-((2-amino ethyl) amino) 68084-55-9 NA 538 3034 Microbiocide, Adjuvant, Fungicide, Insecticide  Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap						
2-((2-amino ethyl) amino) ethanol dodecyl benzene sulfonate  Alkanolamide surfactants  68084-55-9  NA 538  3034  Microbiocide, Adjuvant, Fungicide, Insecticide  NA 911  NA 174  5322  Soap/Surfactant  Soap	İ					
ethanol dodecyl benzene sulfonate Adjuvant, Fungicide, Insecticide Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap		68084-55-9	NA 538	3034		Soan
sulfonate Fungicide, Insecticide Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap	ethanol dodecyl benzene			,		Goap
Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap	sulfonate					
Alkanolamide surfactants NA 911 NA 174 5322 Soap/Surfactant Soap						J
	Alkanolamide surfactants	NA 911	NA 174	5322		Soap
	A 11 74 ···				, Adjuvant	
Alkyl* sodium benzene 68411-30-3 ##### NA 126 Microbiocide, Soap	Alkyl* sodium benzene	68411-30-3	<del>#####</del>	NA 126	Microbiocide,	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Igo Trans	(1)
<u> </u>	CABINGHIDE	Code	Code	Use Type	Chemical Class
sulfonate *(56%C11, 33%C12,		0000		Adjuvant,	
7%C10, 4%C13)				Fungicide,	
				Insecticide	
Ammonium lauryl sulfate	2235-54-3	79028	1017	Adjuvant,	Soap
				Insecticide,	
		İ	,	Microbiocide,	
				Fungicide	
Ammonium oleate	544-60-5	31703	1230	Adjuvant,	Soap
A				Insecticide	<u>-</u>
Ammonium tall oil fatty acid	544-60-5	31703	995	Adjuvant,	Soap
soap	110245 04 0			Insecticide	
Benzene, 1,1'-oxybis-	119345-04-9	NA 147	3561	Microbiocide,	Soap
tetrapropylene derivatives, sulfonated, sodium				Adjuvant,	
surionateu, sodium				Fungicide,	
Butylamine dodecyl benzene	12068-09-6	274.460	2000	Insecticide	****
sulfonate	12008-09-0	NA 469	3079	Microbiocide,	Soap
suitonate .				Adjuvant,	
·		'		Fungicide,	•
Coconut oil soap	NA 199	NA 391	2088	Insecticide	
. cooling on boup	1421 100	14V 231	2000	Adjuvant, Insecticide,	Soap
•				Soap/Surfactant	
DEA-dodecyl benzene	26545-53-9	79015	3123	Microbiocide,	
sulfonate	_00 10 00 9	75015	3123	Adjuvant,	Soap
				Fungicide,	
				Insecticide	
Diethylamine salt of coconut	NA 210	NA 402	1066	Adjuvant,	Soap
fatty acid				Soap/Surfactant	Зоар
Diisopropylamine dodecyl	29061-61-8	NA 327	3156	Microbiocide,	Soap
benzene sulfonate				Adjuvant,	Боар
			ŀ	Fungicide,	
			ļ	Insecticide	
Dimethylalmine propylamine	NA 953	NA 318	3162	Microbiocide,	Soap
tridecyl benzene sulfonate				Adjuvant,	
				Fungicide,	
- D: (1.1.:				Insecticide	
Dimethylamine dodecyl benzene sulfonate	NA 954	NA 324	3161	Microbiocide,	Soap
benzene suifonate		İ	1	Adjuvant,	
			1	Fungicide,	
Disodium 2,2'-oxybis(4-	5136-51-6	70002	2175	Insecticide	
dodecylbenzene)sulfonate	3130-31-0	79003	3175	Microbiocide,	Soap
de de de la come de la		ĺ	İ	Adjuvant,	
	İ	Į	ł	Fungicide, Insecticide	
Disodium 4-dodecyl-2,4'-	7575-62-4	79002	3172	Microbiocide,	
oxydibenzene sulfonate		, , , , , ,	3112	Adjuvant,	Soap
_	[		į	Fungicide,	
		ŀ		Insecticide	
Dodecyl alkyl sulfonate	NA 284	NA 553	1599	Adjuvant	Soap
Dodecylbenzene sulfonic acid	27176-87-0	98002	941	Adjuvant,	Soap
			• •	Microbiocide,	Goap
				Insecticide	
Ethylene diamine dodecyl	12068-06-3	NA 257	3200	Microbiocide,	Soap
benzene sulfonate				Adjuvant,	ooup
		1	j	Fungicide,	
				Insecticide	
Fatty acid esters	NA 1358	NA 193	NA 192	Plant Growth	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		Chemical Class
				Regulator,	
				Insecticide, Adjuvant	
Free fatty acids and/or amine	84776-33-0	31801	1198	Herbicide, Deer	Soap
salts				Repellent,	Боар
•				Fungicide,	
Hydrogenated wax, neutral	274.02	214 107	10.10	Insecticide	
wax and alkali soaps of fatty	NA 93	NA 187	1368	Adjuvant, Insecticide	Soap
acids				msecucide	
Isopropylamine	26264-05-1	79030	3247	Microbiocide,	Soap
dodecylbenzene sulfonate				Adjuvant,	
				Fungicide,	
Lauryl sulfate salts	NA 937	NA 137	2637	Insecticide Adjuvant,	G-
	11111111	141137	2037	Insecticide,	Soap
1				Microbiocide,	
Times all all sufficients	774 202	57		Fungicide	· · · · · · · · · · · · · · · · · · ·
Linear alkyl sulfonate, potassium salt	NA 283	NA 552	1836	Adjuvant	Soap
Magnesium lauryl sulfate	435950	79017	1718	Adjuvant,	Soap
				Insecticide,	•
				Microbiocide, Fungicide	
Mannitan coconut oil ester	26545-55-0	NA 106	3680	Adjuvant,	Soap
				Soap/Surfactant	Soap
Monoethanolamine dodecyl	26545-53-9	79015	1890	Microbiocide,	Soap
benzene sulfonate				Adjuvant,	
· ·				Fungicide, Insecticide	
N,N-dimethyl-1,3-propane	NA 950	NA 305	3168	Microbiocide,	Soap
diamine dodecyl benzene				Adjuvant,	Joup
sulfonate				Fungicide,	
Naphthenic soap	61790-13-4	#####	1806	Insecticide Adjuvant,	<u> </u>
			1000	Insecticide	Soap
Oleic acid, methyl ester	112-62-9	NA 5	2266	Adjuvant	Soap
Oleic acid, potassium salt	143-18-0	79095	865	Adjuvant	Soap
Oleic and linoleic acid, mixed potassium salts	NA 4	NA 6	1807	Adjuvant	Soap
Organic phosphate ester surfactant	NA 1	NA 1	2725	Soap/Surfactant	Soap
Para-alkyl (C9-C13) benzene	25155-30-0	79010	1739	, Adjuvant Microbiocide,	
sulfonic acid, sodium salt	20100 00	75010	1139	Adjuvant,	Soap
				Fungicide,	
Phoneil 2 to a start	2222 17.1			Insecticide	
Phenyl 2-trimethylammonium ethanesulfonate methyl sulfate	22232-15-1	######	NA 125	Microbiocide,	Soap
monty surface			İ	Adjuvant, Fungicide,	
				Insecticide	
Potash fish soap	68154-69-8	79040	496	Adjuvant,	Soap
Potash soap	61790-44-1	#####	1596	Insecticide Herbicide,	Soap
-				Insecticide,	Soap
Dotossius 11 12	00155			Adjuvant	
Potassium alkyl benzene sulfonates	27177-77-1	79008	994	Microbiocide,	Soap
Sundiates	· <u></u>			Adjuvant,	

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
		Code	Code		
				Fungicide, Insecticide	
Potassium dodecylbenzene	27177-77-1	79008	1027	Microbiocide,	Soap
sulfonate			1	Adjuvant,	-
			i	Fungicide,	
D. C. C. C. C. C. C. C. C. C. C. C. C. C.	10104 65 0			Insecticide	
Potassium laurate	10124-65-9	79021	901	Adjuvant,	Soap
				Insecticide,	
				Microbiocide, Fungicide,	
			]	Soap/Surfactant	,
Potassium laurate and myristate	NA 999	NA 780	2825	Adjuvant,	Soap
soaps				Insecticide,	Боар
<u>-</u>				Microbiocide,	
,				Fungicide	
Potassium laurate, other related	NA 1125	NA 166	90901	Adjuvant,	Soap
				Insecticide,	•
		1		Microbiocide,	
				Fungicide	
Potassium lauryl sulfate	4706-78-9	NA 781	3353	Adjuvant	Soap
Potassium myristate	13429-27-1	79022	902	Adjuvant	Soap
Potassium soap of coconut	10124-65-9	79021	903	Adjuvant,	Soap
fatty acid				Insecticide,	
				Microbiocide,	
1				Fungicide,	
Potassium soap of tall oil fatty	10124-65-9	79021	1409	Soap/Surfactant Adjuvant,	<u> </u>
acid	10124-05-5	75021	1709	Insecticide,	Soap
				Fungicide,	
			!	Microbiocide	
Potassium stearate	593-29-3	NA 784	3361	Adjuvant	Soap
Shampoo base	NA 460	NA 822	3795	Adjuvant	Soap
Soap	68952-95-4	79009	772	Microbiocide,	Soap
				Insecticide,	•
				Deer Repellent	
Sodium alkyl* benzene	26856-61-1	79087	NA 760	Microbiocide,	Soap
sulfonate *(100% C9)				Adjuvant,	
				Fungicide,	
Sodium benzene sulfonate	515-42-4	NA 109	974	Insecticide	
Sodiam benzene samonate	313-42-4	NA 109	9/4	Microbiocide, Adjuvant,	Soap
			[	Fungicide,	
				Insecticide	
Sodium decyl benzene	1322-98-1	79088	3394	Microbiocide,	Soap
sulfonate				Adjuvant,	- Comp
				Fungicide,	
				Insecticide	
Sodium di (1-alkenyl) phenoxy benzene disulfonate	39354-74-0	79060	1373	Adjuvant	Soap
Sodium dodecylbenzene	25155-30-0	79010	774	Microbiocide,	Soap
sulfonate				Adjuvant,	
				Fungicide,	
				Insecticide	
Sodium laurate	629-25-4	79026	NA 732	Adjuvant,	Soap
				Insecticide,	
				Microbiocide,	
L				Fungicide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I I a T	
<u>Onormour I valido</u>	CABITUMBEL	Code	<u>CA Chem</u> <u>Code</u>	<u>Use Type</u>	Chemical Class
Sodium lauryl ether diglycol sulfate	NA 1471	NA 219	NA 218	Adjuvant	Soap
Sodium lauryl ether sulfate	9004-82-4	79054	3799	Adjuvant, Insecticide, Microbiocide, Fungicide, Soap/Surfactant	Soap
Sodium lauryl sulfate	151-21-3	79011	907	Adjuvant, Insecticide, Microbiocide, Fungicide	Soap
Sodium methylundecyl benzenesulfonate	27987-00-4	79053	NA 742	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sodium mono (1-alkenyl) phenoxy benzene disulfonate	39354-74-0	79060	1372	Adjuvant	Soap
Sodium n-decyl sulfate	142-87-0	79077	NA 754	Adjuvant	Soap
Sodium N-methyl-N-oleyl laurate	NA 1004	NA 854	3419	Adjuvant, Insecticide, Microbiocide, Fungicide	Soap
Sodium nonanoyloxybenzene sulfonate	91129-43-8	89053	5137	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sodium octylbenzene sulfonate	28675-11-8	79057	NA 745	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sodium tallow soap	NA 473	NA 870	3802	Adjuvant, Insecticide	Soap
Sodium tetradecyl sulfate	1191-50-0	NA 110	3446	Adjuvant	Soap
Sodium tridecylbenzene sulfonate	26248-24-8	79072	NA 752	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sodium triisopropyl naphthalene sulfonate	1323-19-9	NA 872	3448	Insecticide, Fungicide, Microbiocide, Adjuvant	Soap
Sodium triphenyl benzene sulfonate	NA 1006	NA 873	3449	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sodium xylene sulfonate	1300-72-7	79019	909	Adjuvant	Soap
Sodium-1-octane sulfonate	5324-84-5	NA 859	3886	Adjuvant	Soap
Soybean fatty acids, tert amine salt	NA 480	NA 884	1308	Adjuvant	Soap
Strontium dodecyl benzene sulfonate	12068-15-4	NA 906	3456	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Sulfonated petroleum soap	61789-62-6	79012	NA 729	Adjuvant, Insecticide	Soap
Sulfuric acid, monododecyl	151-21-3	79011	2901	Adjuvant,	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	Osc Type	Chemical Class
ester sodium salt				Insecticide,	
				Microbiocide,	
				Fungicide	
Surfactant blend	NA 1515	NA 223	NA 222	Soap/Surfactant	Soap
				, Adjuvant	
Surfactant mixture	NA 1516	NA 223	NA 223	Soap/Surfactant	Soap
T-11	371.605	351 220	1.55	, Adjuvant	
Tallow soap	NA 607	NA 110	1499	Adjuvant,	Soap
Triethanolamine	27323-41-7	79020	984	Insecticide	
dodecylbenzene sulfonate	2/323-41-/	79020	984	Microbiocide,	Soap
				Adjuvant, Fungicide,	
				Insecticide	
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Soap, Inorganic-Zinc
_				Adjuvant,	boap, morganic-zinc
				Fungicide,	
				Insecticide	
Cane syrup	NA 228	NA 441	3598	N/A	Carbohydrate
Complex carbohydrate polymer	NA 834	NA 154	4027	Adjuvant	Carbohydrate
derivative	371.500				
Corn syrup	NA 580	NA 105	3628	Bait	Carbohydrate
Cornstarch	NA 800	NA 148	3627	. N/A	Carbohydrate
Dextrose	50-99-7	NA 360	3129	N/A	Carbohydrate
Fructose	7660-25-5	NA 177	5742	N/A	Carbohydrate
Honey	NA 734	NA 134	2595	N/A	Carbohydrate
Invert sugar	8013-17-0	NA 171	3672	Bait	Carbohydrate
Invert syrup	NA 941	NA 172	3673	Bait	Carbohydrate
Lactose	63-42-3	NA 141	1400	N/A	Carbohydrate
Malt extract	8002-48-0	NA 134	2659	N/A	Carbohydrate
Molasses	NA 40	NA 69	744	Bait	Carbohydrate
Polysaccharide polymer Sorbitol	NA 702	NA 129	2112	Adjuvant	Carbohydrate
Starch	50-70-4	NA 214	1629	N/A	Carbohydrate
	9005-84-9	NA 898	1821	N/A	Carbohydrate
Starch-G-poly (acrylamide-co- sodium acrylate)	NA 494	NA 899	2888	N/A	Carbohydrate
Sugar	57-50-1	23	708	Bait	Coalestant
Sweet n' neat 45 spray dried	NA 634	NA 116	3565	N/A	Carbohydrate
honey powder	1121 05 1	1421 110	3303	IV/A	Carbohydrate
Validamycin	37248-47-8	NA 190	NA 189	Fungicide	Carbohydrate
alpha-Cellulose	NA 1537	NA 225	NA 224	Insecticide	Cellulose derivative
Carbo methoxy ether cellulose,	9004-32-4	#####	2446	Insecticide	Cellulose derivative
sodium salt					Condidate delivative
Cellulose	9004-34-6	NA 432	3100	N/A	Cellulose derivative
Cellulose ethyl hydroxy ethyl	9004-58-4	NA 113	3101	N/A	Cellulose derivative
ether					
Ethyl cellulose	9004-57-3	NA 264	3652	N/A	Cellulose derivative
Hydroxyethyl cellulose	9004-62-0	46201	1511	N/A	Cellulose derivative
Hydroxypropyl methyl cellulose	9004-65-3	NA 179	1969	N/A	Cellulose derivative
Methyl cellulose	9004-67-5	NA 85	1205	N/A	Cellulose derivative
Microcrystalline cellulose	9004-34-6	NA 63	2686	N/A	Cellulose derivative
Nitrocellulose	9004-70-0	99601	NA 867	N/A	Cellulose derivative
(2-	41289-08-1	#####	NA 101	N/A	Unclassified
chloroethyl)methylbis(phenylm ethoxy)silane					

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	I I a a To	T
	CARS INUITION	Code	Code	Use Type	Chemical Class
1% verde green solution	NA 553	NA 100	2982	Dye	TImple of Co. 1
1,2-dimethyl hydrazine	540-73-0	NA 142	3165	N/A	Unclassified
1,2-epoxy butane	106-88-7	NA 142	3190	N/A	Unclassified Unclassified
1,3-butadiene	106-99-0	NA 471	2431	N/A	Unclassified
1-((4-methyl-2-nitrophenyl)	NA 43	NA 80	2682	N/A	
azo) naphthalenol		111100	2002	IVA	Unclassified
1-methyl pyrrolidine	120-94-5	NA 75	3287	N/A	Unclassified
1-Pentanethiol	110-66-7	#####	NA 872	N/A	Unclassified
2,2'-octadecyl imino diethanol	10213-78-2	NA 20	3306	N/A	Unclassified
2,2'-oxybis (4,4,6-trimethyl-	14697-50-8	12402	792	Microbiocide	Unclassified
1,3,2-dioxaborinane)			.,	1411010010Cide	Onciassined
2-butanone oxime	96-29-7	NA 474	3071	N/A	Unclassified
2-chloropyridine-N-oxide	NA 219	NA 417	2466	N/A	Unclassified
2-ethyl hexanoic acid	149-57-5	#####	3228	N/A	Unclassified
2-ethyl hexyl acrylate	103-11-7	NA 252	2115	N/A	Unclassified
2-heptanone	110-43-0	NA 206	3223	N/A	Unclassified
2-hydroxy-4-n-octyl	NA 572	NA 103	2608	N/A	Unclassified
benzophenone				1.7.2	Chelassified
2-mercapto pyridine	2637-34-5	NA 94	2671	N/A	Unclassified
2-nitro-1-butyl phosphate	57249-19-1	56902	2033	N/A	Unclassified
2-Nitropropane	79-46-9	#####	3301	Impurity	Unclassified
3',6'-Dihydro-2',4',5',7'-	15905-32-5	· #####	NA 981	Dye	Unclassified
tetraiodospiro(isobenzofuran-					
1(3H),9'-(9H)xanthen)-3-one					
4-hydroxydiphenylamine	122-37-2	NA 217	NA 217	Breakdown	Unclassified
5 mothed 2 h				product	
5-methyl-2-hexanone Acetaldehyde	110-12-3	NA 81	3230	N/A	Unclassified
Acetic anhydride	75-07-0	#####	3012	N/A	Unclassified
Acetone	108-24-7	44007	3014	N/A	Unclassified
Acetonitrile	67-64-1	44101	747	Solvent	Unclassified
Acetophenone	75-05-8	NA 699	3015	Solvent	Unclassified
Acid blue 182	98-86-2	#####	2074	. N/A	Unclassified
Acid blue 7	NA 599	NA 108	2353	Dye	Unclassified
Acid blue 7 Acid blue 9, diammonium salt	NA 385	NA 702	2352	Dye	Unclassified
Acid blue 9, disodium salt	2650-18-2	#####	2154	Herbicide, Dye	Unclassified
Acid blue 9, disodium sait Acid yellow 23	3844-45-9	####	3562	Herbicide, Dye	Unclassified
Acridinic bases	1934-21-0	#####	2155	Herbicide, Dye	Unclassified
	NA 1356	NA 193	NA 192	Repellent	Unclassified
Acrylic acid AD-67	79-10-7	NA 129	2118	N/A	Unclassified
AD-07	NA 1378	NA 195	NA 194	Herbicide	Unclassified
Adjuvants	NA 1484	NIA 221	374 000	Safener	
Agent 1059-106	NA 388	NA 221 NA 708	NA 220	Adjuvant	Unclassified
Agent 1059-108	NA 600		2357	N/A	Unclassified
Agent 1315-33A	NA 389	NA 108	2358	N/A	Unclassified
Agent 1315-33N	NA 390	NA 709	3881	N/A	Unclassified
Agent 1519-55N	NA 654	NA 710	3879	N/A	Unclassified
Agent 551-85	NA 387	NA 120	3880	N/A	Unclassified
Agent W-218	NA 391	NA 707	2356	N/A	Unclassified
Aldehyde C10	112-31-2	NA 711	2359	N/A	Unclassified
Aldehyde C11	112-31-2	#####	NA 107	N/A	Unclassified
Aldehyde C12	112-54-9	#####	NA 107	N/A	Unclassified
Aldehyde C6	66-25-1	#####	NA 107	N/A	Unclassified
Aldehyde C8	124-13-0	#####	NA 107	N/A	Unclassified
	147-13-0	#####	NA 107	N/A	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chan		
<u>GRUIMSBI I IGMO</u>	CAS Number	Code	CA Chem Code	<u>Use Type</u>	Chemical Class
Aldimorph	NA 1340	NA 188	NA 187	Fungicide	TT 1 'C 1
Aliphatic amines	NA 713	NA 130	2362	N/A	Unclassified
Alkanol XC	NA 828	NA 152	3931	Adjuvant	Unclassified
Alkatronic PGP-33-4	NA 395	NA 717	2363	N/A	Unclassified
Alkyl (C9H12) benzenes	NA 310	NA 589	2371	Solvent	Unclassified
Amine 220	21652-27-7	NA 141	3033		Unclassified
Amines, aliphatic	NA 277	NA 543	1747	N/A	Unclassified
Amino acids	NA 1359	NA 193	NA 192	N/A	Unclassified
	1111 1555	NA 193	NA 192	Plant Growth	Unclassified
Ammonium propionate	NA 1061	NA 158	5015	Regulator Microbiocide,	77 1 100
		142150	3013	Preservative	Unclassified
Amsco-solv	NA 271	NA 526	2386	Solvent	Unclassified
Amygdalinic acid diethyl	NA 1448	NA 215	NA 214	Insect	Unclassified
amide				Repellent	Unclassified
Amyl acetate	628-63-7	169	1889	N/A	Unclassified
Aniline	62-53-3	#####	3056	N/A	Unclassified
Anionic wax emulsion	61789-97-7	NA 515	3818	N/A	Unclassified
Anionic wax emulsion	NA 892	NA 171	3848	N/A	Unclassified
Aquashade	92170-50-8	#####	NA 909	Herbicide, Dye	Unclassified
Armul 1426	NA 267	NA 522	3878	N/A	Unclassified
Armul 1426 HF	NA 822	NA 151	3877	N/A	
Armul 1427	NA 268	NA 523	3883	N/A	Unclassified
Armul 1427 HF	NA 589	NA 106	3876	N/A	Unclassified
Armul 214/215	NA 265	NA 520	2391	N/A	Unclassified
Armul 22	NA 263	NA 518	2389	N/A	Unclassified
Armul 33	NA 587	NA 106	2390	N/A	Unclassified
Armul 358	NA 266	NA 521	2392	N/A	Unclassified
Armul 646	NA 588	NA 106	2393	N/A N/A	Unclassified
Armul 88	NA 264	NA 519	3908	N/A	Unclassified
Artificial peanut butter flavor	NA 717	NA 131	2397	N/A N/A	Unclassified
wl-5344	1.12/2/	1421 151	2391	. IN/A	Unclassified
Astrazon yellow 4g200	NA 258	NA 511	2399	Dye	Unclassified
Atlox 1045A	61723-83-9	NA 152	3911	N/A	
Atplus 300F	NA 255	NA 507	3916	N/A	Unclassified
b-Bromo-b-nitrostyrene	7166-19-0	NA 221	NA 221	Microbiocide	Unclassified
Barochem B464	NA 247	NA 499	2413	N/A	Unclassified
Basic violet 1	8004-87-3	39503	3584	Dye	Unclassified
ВСР	NA 237	NA 465	64	N/A	Unclassified
Be-4526 phthalo blue lake r-c	NA 244	NA 488	3518	Dye	Unclassified
Benfuresate	68505-69-1	NA 187	NA 187	Herbicide	Unclassified
Bensultap	17606-31-4	NA 185	NA 185	Insecticide	Unclassified
Benzene sulfonyl chloride	98-09-9	NA 489	2415		Unclassified
Benzfendizone	158755-95-4	NA 230	NA 230	N/A	Unclassified
Benzobicyclon	156963-66-5	NA 230	NA 230	Herbicide Herbicide	Unclassified
Benzofenap	82692-44-2	NA 211	NA 211		Unclassified
Benzophenone-2	131-55-5	NA 492	3063	Herbicide N/A	Unclassified
Benzophenone-3	119-61-9	315	2417		Unclassified
Benzyl chloride	100-44-7	NA 486	2417	N/A	Unclassified
Berol 927	NA 894	NA 171	3874	N/A	Unclassified
Berol 968	NA 893	NA 171		N/A	Unclassified
Bethoxazin	163269-30-5	NA 230	3873 NA 220	N/A	Unclassified
ВНА	25013-16-5	NA 484	NA 230	Herbicide	Unclassified
Bicyclic and methene resins	NA 242		2420	N/A	Unclassified
	1121 272	NA 485	3516	N/A	Unclassified

Chemical Name	CAS Number	TIC EDA DO	101 or	T	
<u>Chemical Ivanic</u>	CAS Number	U.S. EPA PC		u <u>Use Type</u>	Chemical Class
Bioban p-1487	37304-88-4	<u>Code</u> #####	Code	<del> </del>	
Biphenyl	92-52-4		1742	Microbiocide	Citoragoilled
D.phenyi	92-32-4	17002	227	Microbiocide, Fungicide	Unclassified
Bisphenol A	80-05-7	NA 482	3070	N/A	I Implement 1
Bisphenol F	205672	NA 216	NA 215	N/A	Unclassified
Bispyribac	125401-75-4	NA 203	NA 203	Herbicide	Unclassified
Bisthiosemi	39603-48-0	NA 206	NA 206	Rodenticide	Unclassified
Block polymer of	NA 850	NA 158	5011	N/A	Unclassified
carbonyldiamide			3011	IV/A	Unclassified
polyoxyalkylated glycol adduct	<u> </u>				
Brandol	NA 1379	NA 195	NA 194	Fungicide	Unclassified
Bromoacetic acid	79-08-3	8702	NA 102	N/A	Unclassified
Burgundy mixture	NA 1380	NA 195	NA 194	Fungicide	Unclassified
Busan 1009	NA 1564	NA 227	NA 227	Fungicide	Unclassified
Butadiene-acrylonitrile	9003-18-3	NA 472	2432	N/A	Unclassified
copolymer				1 1111	Chclassified
Butane	106-97-8	NA 473	1562	N/A	Unclassified
Buthiobate	51308-54-4	NA 206	NA 206	Fungicide	Unclassified
Butyl mercaptan	109-79-5	#####	5087	Deer Repellent,	
				Bear Repellent	Oliciassified
C-PA-1224 black	NA 191	NA 379	2483	N/A	Unclassified
Calcium propionate	4075-81-4	77701	2441	Preservative	Unclassified
Cambendichlor	56141-00-5	NA 230	NA 230	Herbicide	Unclassified
Capric acid	334-48-5	#####	2315	Microbiocide	Unclassified
Caprylic acid	124-07-2	#####	2316	Microbiocide	Unclassified
Caramel color	NA 720	NA 131	2444	Dye	Unclassified
Carfentrazone	128621-72-7	NA 210	NA 210	Herbicide	Unclassified
Carfentrazone-ethyl	128639-02-1	<del>              </del>	5130	Herbicide	Unclassified
Carpropamid	104030-54-8	NA 203	NA 203	Fungicide	Unclassified
Cartap	15263-53-3	NA 181	NA 181	Insecticide	Unclassified
Cartap hydrochloride	22042-59-7	NA 182	NA 181	Insecticide	Unclassified
(unspecified hydrochloride)					
Cartap monohydrochloride	15263-52-2	NA 182	NA 181	Insecticide	Unclassified
Cetiol HE	66105-29-1	#####	NA 871	Insecticide	Unclassified
CGA-154281	NA 721	NA 132	2451	N/A	Unclassified
Chartersol-1 Chem-o-thane D-3860/D-3861	NA 221	NA 428	2453	Solvent	Unclassified
	NA 223	NA 430	2454	N/A	Unclassified
Chicago sludge Chloracetic acid	68188-15-8	NA 147	3605	N/A	Unclassified
	79-11-8	#####	3102	N/A	Unclassified
Chloral-bis-acylal	NA 1344	NA 191	NA 191	Plant Growth	Unclassified
Chloral-semi-acetal	NA 1345	NA 191	NA 191	Regulator	TT. 1 15 1
Chloretazate	NA 1403	NA 197	NA 196	Herbicide Plant Growth	Unclassified
	- 1.5 4 1.00	111117	NA 190		Unclassified
Chlorfenprop	59404-06-7	NA 181	NA 180	Regulator Herbicide	I Inclease 1
Chlorfenprop-methyl	14437-17-3	#####	NA 156	Herbicide	Unclassified
Chlorinated rubber	2594016	NA 427	3606	N/A	Unclassified
Chlormethiuron	28217-97-2	NA 206	NA 206	Insecticide	Unclassified
Chlorobenzene	108-90-7	56504	2460	N/A	Unclassified
Choline chloride	67-48-1	NA 191	NA 190	Rodenticide	Unclassified
Cinidon-ethyl	142891-20-1	NA 216	NA 215	Herbicide	Unclassified
Citowett	NA 218	NA 412		Soap/Surfactant	Unclassified
Cloquintocet	88349-88-6		NA 218	Herbicide	Unclassified
			- 171 210	Safener	Unclassified

Code   Code	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Cloquintocet mexyl   99607-70-2   NA 191   NA 190   Herbicide Safener		<u> </u>			OSC Type	Chemical Class
Coloxyfonac   32791-87-0   NA 204   NA 203   Plant Growth Regulator   Unclassified   Colgate crystal white hand   Goldagen   NA 203   NA 394   1805   N/A   Unclassified   Colloid 643   NA 582   NA 105   2477   N/A   Unclassified   Colloid 643   NA 582   NA 105   2477   N/A   Unclassified   Colloid 643   NA 582   NA 105   NA 207   NA 207   NA 207   Unclassified   Colloid 840   NA 791   NA 146   3527   N/A   Unclassified   Colloid 840   NA 791   NA 146   3527   N/A   Unclassified   Colloid 643   NA 582   NA 641   NA 117   3621   Bait   Unclassified   Unclassified   Credazine   14491-59-9   NA 207   NA 206   Herbicide   Unclassified   Credazine   14491-59-9   NA 207   NA 206   Pruning Aid   Unclassified   Cyclohexanone   108-94-1   25902   177   Solvent   Unclassified   Cyclopentadiene polymer   NA 1450   NA 215   NA 214   Insecticide   Unclassified   Cymiazol phydrochloride   61676-81-7   NA 215   NA 214   Insecticide   Unclassified   Cymiazol phydrochloride   61676-81-7   NA 215   NA 214   Insecticide   Unclassified   Cymiazol phydrochloride   61676-81-7   NA 215   NA 214   Insecticide   Unclassified   Cymiazol phydrochloride   61676-81-7   NA 215   NA 216   Insecticide   Unclassified   Unclassified   Cymiazol phydrochloride   61676-81-7   NA 215   NA 216   Insecticide   Unclassified   Unclassified   Cymiazol phydrochloride   Safener   Cysteine   52-90-4   NA 190   NA 190   Plant Growth   Regulator   Unclassified   D& Cred no. 28   18472-87-2   ####   4002   Fungicide   Unclassified   D& Cred no. 28   18472-87-2   #####   4515   Dye   Unclassified   D& Cred no. 28   18472-87-2   #####   4515   Dye   Unclassified   D& Cred no. 28   18472-87-2   #####   4515   Dye   Unclassified   D& Cred no. 28   NA 184   NA 367   2488   Solvent   Unclassified   D& Cred no. 28   NA 185   NA 368   2491   N/A   Unclassified   D& Cred no. 37   1632455   NA 118   NA 368   2491   N/A   Unclassified   Unclassified   Device, no guarantee required   NA 180   NA 222   NA 221   N/A   Unclassified   Unclassified   Dichorovinyl acid   NA 1	Cloquintocet mexyl	99607-70-2	NA 191		i .	Unclassified
Collager crystal white hand dishwashing liquid		32791-87-0	NA 204	NA 203	Plant Growth	Unclassified
Colloid 643	dishwashing liquid		NA 393	2476		Unclassified
Colloid 840				1805	N/A	Unclassified
Cookies			NA 105		N/A	Unclassified
Credazine			NA 146		N/A	Unclassified
Cubiet			NA 117	3621	Bait	Unclassified
Cyclohexanone   108-94-1   25902   177   Solvent   Unclassified   Cyclopentadiene polymer   NA 1450   NA 215   NA 214   Insecticide   Unclassified   Cymiazol hydrochloride   61676-87-7   NA 215   NA 214   Insecticide   Unclassified   Cymoxanil   63278-33-1   NA 207   NA 206   Herbicide   Safener   Cysteine   52-90-4   NA 190   NA 190   NA 190   Plant Growth   Regulator   Cysteine   52-90-4   NA 190   NA 190   Plant Growth   Cyclopentadiene   D&C red no. 28   18472-87-2   #####   3515   Dye   Unclassified   D&C red no. 37   1632455   NA 117   3634   Dye   Unclassified   D&C red no. 37   1632455   NA 117   3634   Dye   Unclassified   D&C yellow no. 8   NA 829   NA 152   3991   Dye   Unclassified   D-425   NA 184   NA 367   2487   Dye   Unclassified   D-425   NA 184   NA 367   2489   NV/A   Unclassified   D-79 solvent   NA 183   NA 366   2488   Solvent   Unclassified   Day-glo saturn yellow AX-17-   NA 186   NA 369   2492   Dye   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 177   NA 357   2494   NV/A   Unclassified   Delvet 65   NA 178   NA 195   NA 194   Plant Growth   Regulator   Unclassified   Dichoro acetic acid   79-43-6   NA 105   3133   NV/A   Unclassified   Dichoro acetic acid   79-43-6   NA 105   3133   NV/A   Unclassified   Dichoro acetic acid   79-43-6   NA 105   3133   NV/A   Unclassified   Dichoro acetic acid   79-43-6   NA 105   3133   NV/A   Unclassified   Dichoro acetic acid   79-43-6   NA 105   3133   NV/A   Unclassified   Dichoro acetic acid   79-43-6   NA 186   NA 185   Pugicide   Unclassified   Unclassified   Dichoro acetic acid   79-43-6   NA	Credazine	14491-59-9	NA 207	NA 206	Herbicide	Unclassified
Cyclohexanone		NA 1367	NA 193	NA 193		Unclassified
Cyclopentadiene polymer	Cyclohexanone	108-94-1	25902	177		Unclassified
Cymiazol hydrochloride		NA 1450	NA 215	NA 214		
Cymoxanil   57966-95-7		61676-87-7		NA 214	Insecticide	
Cysteine			#####	4002		
Cysteine	Cyometrinil	63278-33-1	NA 207	NA 206	Herbicide	
D & C red no. 28   18472-87-2   #####   3515   Dye   Unclassified	Cysteine	52-90-4	NA 190	NA 190	Plant Growth	Unclassified
D & C red no. 37	D & C red no. 28	18472-87-2	<del>#####</del>	3515		Unclassified
D & C yellow no. 8		1632455	NA 117	3634	Dye	
D-425			NA 365	2487	Dye	Unclassified
D-79 solvent		NA 829	NA 152	3991	Dye	Unclassified
D-79 solvent			NA 367	2489	N/A	Unclassified
Daxad 23 NA 185 NA 368 2491 N/A Unclassified Day-glo saturn yellow AX-17- NA 186 NA 369 2492 Dye Unclassified  DE-570 NA 1459 NA 216 NA 216 N/A Unclassified Delvet 65 NA 177 NA 357 2494 N/A Unclassified Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required Device, no guarantee required NA 1503 NA 222 NA 221 N/A Unclassified Di-1-p-menthene NA 1381 NA 195 NA 194 Plant Growth Regulator Diafenthiuron 80060-09-9 NA 186 NA 185 Insecticide Unclassified Dichloro acetic acid 79-43-6 NA 105 3133 N/A Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified Dicyclopentadiene 62865-36-5 NA 204 NA 204 Fungicide Unclassified Dicyclopentadiene 77-73-6 NA 186 NA 185 Pungicide Unclassified Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator Dicyclopentadiene 1015-05-05-05-05-05-05-05-05-05-05-05-05-05		NA 183	NA 366	2488	Solvent	
DE-570 NA 1459 NA 216 NA 216 N/A Unclassified Delvet 65 NA 177 NA 357 2494 N/A Unclassified Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified Di-1-p-menthene NA 1381 NA 195 NA 194 Plant Growth Regulator Diafenthiuron 80060-09-9 NA 186 NA 185 Insecticide Unclassified Dichloro acetic acid 79-43-6 NA 105 3133 N/A Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown product Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator, Dog and Cat Repellent Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent Dicyclopentadiene linseed oil copolymer		NA 185	NA 368	2491	N/A	
Delvet 65 NA 177 NA 357 2494 N/A Unclassified  Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified  Di-l-p-menthene NA 1381 NA 195 NA 194 Plant Growth Regulator  Diafenthiuron 80060-09-9 NA 186 NA 185 Insecticide Unclassified  Dichloro acetic acid 79-43-6 NA 105 3133 N/A Unclassified  Dichlorovinyl acid NA 174 NA 347 2502 Breakdown product  Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified  Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified  Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator  Dicyclopentadiene 68213-53-6 31612 NA 291 N/A Unclassified  Dicyclopentadiene linseed oil copplymer	N		NA 369	2492	Dye	Unclassified
Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  Device, no guarantee required  Di-l-p-menthene  NA 1381 NA 195 NA 194 Plant Growth Regulator  Diafenthiuron  80060-09-9 NA 186 NA 185 Insecticide Unclassified  Dichloro acetic acid  79-43-6 NA 105 3133 N/A Unclassified  Dichlorovinyl acid  NA 174 NA 347 2502 Breakdown product  Diclobutrazol  75736-33-3 NA 186 NA 185 Fungicide Unclassified  Diclomezine  62865-36-5 NA 204 NA 204 Fungicide Unclassified  Dicyclanil  112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene  77-73-6 NA 186 NA 185 Plant Growth Regulator  Dicyclopentadiene linseed oil copolymer  Dicyclopentadiene linseed oil copolymer  Dicyclopentadiene linseed oil copolymer			NA 216	NA 216	N/A	Unclassified
Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  Di-l-p-menthene  NA 1381  NA 1502  NA 222  NA 221  NA 221  NA 221  NA Unclassified  Diafenthiuron  Boofo-09-9  NA 186  Dichloro acetic acid  Dichlorovinyl acid  NA 174  NA 347  Diclobutrazol  Diclobutrazol  Diclobutrazol  Diclomezine  62865-36-5  NA 204  NA 185  NA 185  Fungicide  Unclassified			NA 357	2494	N/A	Unclassified
algaecide,bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  Di-I-p-menthene  NA 1381  NA 195  NA 194  Plant Growth Regulator  Diafenthiuron  B0060-09-9  NA 186  NA 105  Dichloro acetic acid  Ty-43-6  Dichlorovinyl acid  NA 174  NA 347  Diclobutrazol  Diclobutrazol  Diclomezine  62865-36-5  NA 204  Dicyclamil  Dicyclopentadiene  T7-73-6  NA 186  NA 185  NA 185  NA 185  Fungicide  Unclassified		NA 179	NA 359	2497	N/A	
Di-l-p-menthene  NA 1381  NA 195  NA 194  Plant Growth Regulator  Diafenthiuron  80060-09-9  NA 186  NA 185  Dichloro acetic acid  79-43-6  NA 105  NA 105  Dichlorovinyl acid  NA 174  NA 347  Dichlorovinyl acid  NA 174  NA 347  Dichlorovinyl acid  NA 185  Dichlorovinyl acid  NA 186  NA 185  Fungicide  Diclobutrazol  75736-33-3  NA 186  NA 185  Fungicide  Unclassified  Dicyclanil  112636-83-6  NA 204  NA 204  Fungicide  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  NA 211  NA 211  NA 211  Insect Growth Regulator  Dicyclopentadiene  77-73-6  NA 186  NA 185  Plant Growth Regulator  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  NA 211	algaecide,bacteriacide, molluscicide) no guarantee required			NA 222	Microbiocide,	Unclassified
Diafenthiuron 80060-09-9 NA 186 NA 185 Insecticide Unclassified Dichloro acetic acid 79-43-6 NA 105 3133 N/A Unclassified Dichlorovinyl acid NA 174 NA 347 2502 Breakdown product Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified					N/A	Unclassified
Dichloro acetic acid  Dichlorovinyl acid  NA 174  NA 347  Dichlorovinyl acid  NA 174  NA 347  Dichlorovinyl acid  NA 174  NA 347  Dichlorovinyl acid  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 204  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  NA 185  Dichlorovinyl acid  NA 186  Dichlorovinyl acid  NA 186  NA 186  NA 185  Dichlorovinyl acid  NA 186  Dichlorovinyl acid  NA 186  Dichlorovinyl acid  NA 186  Dichlorovinyl acid  NA 186  NA 186  NA 185  Dichlorovinyl acid  NA 186  Dichlorovinyl acid						Unclassified
Dichlorovinyl acid  NA 174  NA 347  2502  Breakdown product  Diclobutrazol  Diclomezine  62865-36-5  NA 204  Dicyclanil  112636-83-6  NA 211  NA 211  Dicyclopentadiene  77-73-6  NA 186  NA 185  Plant Growth Regulator  NA 185  Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil  Copolymer  Dicyclopentadiene  68213-53-6  A 1612  NA 291  NA 291  NA Unclassified						
Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified  Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified  Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified						Unclassified
Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified  Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified  Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified			NA 347	2502		
Dicyclanil 112636-83-6 NA 204 NA 204 Fungicide Unclassified  Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified				NA 185		Unclassified
Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Regulator  Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified			NA 204	NA 204		<del></del>
Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent  Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified	-		NA 211	NA 211	Insect Growth	
Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified copolymer		77-73-6	NA 186	NA 185	Plant Growth Regulator, Dog and Cat	Unclassified
Diethyl phosphate 598-02-7 NA 180 NA 179 Breakdown Unclassified	copolymer	68213-53-6	31612	NA 291		Unclassified
	Diethyl phosphate	598-02-7	NA 180	NA 179	Breakdown	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Class
	<u>OTRO TYMHIOCI</u>	Code	Code	Ose Type	Chemical Class
				product	
Diethyl sulfide	352-93-2	#####	5088	Bear Repellent	Unclassified
Diethyldithio phosphate	298-06-6	NA 180	NA 179	Breakdown	Unclassified
			102175	product	Unclassified
Diethylthio phosphate	5871-17-0	NA 180	NA 179	Breakdown	Unclassified
		}		product	Onciassined
Diisoamyl ketone	2050-99-9	NA 325	3155	Solvent	Unclassified
Diisobutyl ketone	108-83-8	44107	1946	Solvent	Unclassified
Dikegulac	18467-77-1	NA 181	NA 180	Herbicide	Unclassified
Dikegulac sodium	52508-35-7	#####	2004	Plant Growth	Unclassified
				Regulator	Cholassinod
Dimer acid	6144-28-1	NA 330	3158	N/A	Unclassified
Dimethyl phosphate	813-78-5	NA 180	NA 179	Breakdown	Unclassified
	•			product	
Dimethyl sulfoxide	67-68-5	177	3169	Solvent	Unclassified
Dimethyldithio phosphate	756-80-9	NA 180	NA 180	Breakdown	Unclassified
				product	•
Dimethylthio phosphate	NA 1339	NA 180	NA 179	Breakdown	Unclassified
				product	
Dioxane	123-91-1	NA 300	2529	Solvent,	Unclassified
Dinkonal mathematical	101.01.5			Impurity	
Diphenyl methane	101-81-5	NA 301	3171	N/A	Unclassified
Diphenylamine	122-39-4	38501	228	Fungicide,	Unclassified
				Plant Growth	
·				Regulator,	·
Dipropyl isocinchomerate	3737-22-2	NA 204	NA 204	Insecticide	
2 propyr moomonomorato	3737-22-2	NA 204	NA 204	Insect	Unclassified
Dipropyl isocinchomeronate	136-45-8	47201	681	Repellent Insect	I Implement of a
1 13	120 .5 0	47201	001	Repellent	Unclassified
Dog or cat collars	NA 155	NA 291	3645	N/A	Unclassified
Dow Corning FG-10	NA 147	NA 281	2541	N/A	Unclassified
Dowanol desg solvent	NA 725	NA 133	2538	Solvent	Unclassified
Drewplus L-768	NA 148	NA 283	2542	N/A	Unclassified
Dyestuffs	NA 689	NA 127	1913	Dye	Unclassified
Emcol AL69-49	NA 726	NA 133	2544	N/A	Unclassified
Emphos CS-121	NA 727	NA 133	2545	Soap/Surfactant	Unclassified
Emulgator	NA 143	NA 277	2546	N/A	Unclassified
Emulsogen CP 136	NA 576	NA 104	2547	Adjuvant	Unclassified
Emulsogen NP 11-300	NA 144	NA 278	2548	Adjuvant	Unclassified
Endothall	145-73-3	38901	5813	Herbicide,	Unclassified
		<i>y</i>		Defoliant	Onomostifed
Endothall, di (N,N-	NA 949	NA 271	1355	Herbicide,	Unclassified
diethylalkylamine) salt				Defoliant	
Endothall, di (N,N-	66330-88-9	38905	1904	Herbicide,	Unclassified
dimethylalkylamine) salt				Defoliant	
Endothall, di(N,N-	2536-26-7	38902	NA 323	Herbicide,	Unclassified
dimethyltridecylamine) salt				Defoliant	
Endothall, diammonium salt	17439-94-0	38908	NA 326	Herbicide,	Unclassified
Endothell distant	2164 27 2		<u></u>	Defoliant	
Endothall, dipotassium salt	2164-07-0	38904	1356	Herbicide,	Unclassified
Endothall, disodium salt	120 67 0	20000	0.50	Defoliant	
Endoman, disodium salt	129-67-9	38903	260	Herbicide,	Unclassified
Endothall, mono (N,N-diethyl	NA 926		1264	Defoliant	
Zanada, mono (13,11-dictily)	INA 920	NA 4	1354	Herbicide,	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	939 1,59	Chemical Class
alkylamine) salt				Defoliant	
Endothall, mono [N,N-	NA 929	NA 61	2056	Herbicide,	Unclassified
dimethyl alkylamine] salt				Defoliant	o moreoprito@
Endothall, mono(N,N-	2536-27-8	38906	NA 325	Herbicide,	Unclassified
dimethyltridecylamine) salt			L	Defoliant	
Endothall, N,N-	NA 1282	38907	NA 174	Herbicide,	Unclassified
dimethylcocamine salt (1:2)				Algaecide	
Epoxidized linseed oil	2232670	NA 272	2550	Insecticide,	Unclassified
Epoxy resins	374 120	371.050		Adjuvant	
Erythrosine B	NA 139	NA 269	3650	N/A	Unclassified
Erytmosine B	16423-68-0	#####	2224	Dye,	Unclassified
Escorez 1102	9048-47-9	NA 146	3546	Insecticide	TT 1 10 1
Espesol I	NA 140	NA 270	2552	N/A	Unclassified
Etacelasil	37894-46-5	NA 188		Solvent	Unclassified
·	37694-40-3	INA 100	NA 187	Defoliant, Plant Growth	Unclassified
· ·				Regulator	
Ethanethiol	75-08-1	NA 187	NA 186	Rodenticide	Unclassified
Ethomeen	NA 136	NA 265	2553	N/A	Unclassified
Ethyl acrylate	140-88-5	NA 259	2117	N/A	Unclassified
Ethyl formate	109-94-4	43102	278	Fumigant,	Unclassified
		.5252	270	Insecticide	Onciassified
Ethyl methacrylate	97-63-2	NA 248	3203	N/A	Unclassified
Ethylene-acrylic acid	9010-77-9	NA 253	3653	Adjuvant	Unclassified
copolymer					
Ethylene-acrylic terpolymer	NA 133	NA 254	1950	Adjuvant	Unclassified
Ethylhexanoate	123-66-0	NA 190	NA 190	Fungicide,	Unclassified
				Microbiocide	
Extender	NA 1377	NA 195	NA 194	Synergist	Unclassified
Fatty alcohols	NA 1364	NA 193	NA 192	Plant Growth	Unclassified
				Regulator,	
FD&C blue no. 1 aluminum	53026-57-6	NA 242	3000	Adjuvant	
lake	33020-37-0	NA 242	3000	Dye	Unclassified
FD&C green no. 3	NA 127	NA 243	2566	Dye	Unclassified
FD&C red no. 40	NA 947	#####	2567	Dye, Impurity	Unclassified
Feed supplements	NA 128	NA 244	3655	N/A	Unclassified
Fenchlorazole	103112-35-2	NA 181	NA 181	Herbicide	Unclassified
			212201	Safener	Oliciassified
Fenchlorim	3740-92-9	NA 182	NA 181	Herbicide	Unclassified
				Safener	
Fenitropan	65934-95-4	NA 207	NA 207	Fungicide	Unclassified
Fenpiclonil	74738-17-3	NA 188	NA 187	Fungicide	Unclassified
Fenpropidin	67306-00-7	NA 184	NA 183	Fungicide	Unclassified
Fenpropimorph	67306-03-0	#####	NA 988	Fungicide	Unclassified
Fenpropimorph	67564-91-4	NA 201	NA 200	Fungicide	Unclassified
Fenthiosulf	NA 1406	NA 198	NA 197	Insecticide	Unclassified
Fertilizer, general	NA 729	NA 133	2569	N/A	Unclassified
Filter paper e-d-601-25	NA 122	NA 235	3525	N/A	Unclassified
Flomo 1212	NA 124	NA 239	2572	Soap/Surfactant	Unclassified
Flomo 4NP	NA 616	NA 112	2573	Soap/Surfactant	Unclassified
Florasulam	NA 1447	NA 214	NA 214	Herbicide	Unclassified
Flubenzimine (unstated	37893-02-0	NA 188	NA 187	Insecticide	Unclassified
stereochemistry)	10005 5 5 5				
Flumequine	42835-25-6	NA 188	NA 187	Microbiocide	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		Onomical Class
Flumiclorac	87547-04-4	NA 232	NA 232	Herbicide	Unclassified
Flumipropyn	84478-52-4	NA 229	NA 229	Herbicide	Unclassified
Flupropanate	756-09-2	NA 204	NA 204	Herbicide	Unclassified
Flupropanate, sodium salt	22898-01-7	NA 211	NA 211	Herbicide	Unclassified
Flurazole	72850-64-7	NA 187	NA 186	Herbicide	Unclassified
				Safener	0 220120021100
Flurtamone	96525-23-4	NA 217	NA 216	Herbicide	Unclassified
Fluthiacet	149253-65-6	NA 205	NA 204	Herbicide	Unclassified
Fluxofenim	88485-37-4	NA 202	NA 201	Herbicide	Unclassified
				Safener	
Formaldehyde	50-00-0	43001	295	Microbiocide,	Unclassified
Footyl A1	20140.04.0	20212121		Fungicide	
Fosetyl-Al Fragrance 1256 H	39148-24-8	#####	2210	Fungicide	Unclassified
Fragrance for mosquito	NA 115	NA 227	2575	Fragrance	Unclassified
repellent p-7510	51843	NA 140	3007	Fragrance	Unclassified
Fragrance N-5716	NA 116	NA 228	2050		
Fragrance orange 418228	NA 110	NA 228 NA 229	3852	Fragrance	Unclassified
Fragrance PNLF 6986	NA 633		3889	Fragrance	Unclassified
Fragrance RS-2661	NA 824	NA 116	3563	Fragrance	Unclassified
Frambinone	5471-51-2	NA 151	3891	Fragrance	Unclassified
Fumaric acid	110-17-8	NA 212	NA 212	Fragrance	Unclassified
Furnaric and crotonic acids,	NA 118	51201	297	N/A	Unclassified
esters of	NA 116	NA 230	1711	.N/A	Unclassified
Fumigants	NA 1492	NA 221	NA 221	Fumigant	Unclassified
Furaneol 15% p.g.	NA 119	NA 231	2576	N/A	Unclassified
Furfural	98-01-1	43301	1522	N/A	Unclassified
Gentian	97676-22-7	#####	NA 108	Dye	Unclassified
Gentian violet	548-62-9	39502	1270	Microbiocide, Dye	Unclassified
Gentian violet	548-62-9	98401	NA 173	Microbiocide, Dye	Unclassified
Givaudan muquet PA-6664	NA 575	NA 104	2580	N/A	Unclassified
Glidden no. 3200 white latex	NA 113	NA 224	2581	N/A	Unclassified
Glue	NA 643	NA 118	3661	N/A	Unclassified
Glufosinate	51276-47-2	NA 203	NA 202	Herbicide	Unclassified
Glufosinate-ammonium	77182-82-2	#####	3946	Herbicide	Unclassified
Grease (bands, fruit trees)	NA 1350	NA 192	NA 191	Insecticide	Unclassified
Green M liquid dye	NA 106	NA 211	3840	Dye	Unclassified
Heptopargil	73886-28-9	NA 208	NA 207	Plant Growth Regulator	Unclassified
Heptyl butyrate	5870-93-9	NA 207	3668	N/A	Unclassified
Hi-sol 15	NA 97	NA 192	2594	Solvent	Unclassified
Hostaphat MDAR-N-040	NA 98	NA 193	2596	N/A	Unclassified
Hostapon T powder highly concentrated	97-80-3	NA 171	3942	N/A	Unclassified
Hydrazine	302-01-2	NA 195	2598	Impurity, Breakdown	Unclassified
Hydrolysed linseed fatty acid	NA 1436	NA 212	NA 212	product	TT 1 100
Hydroxyl amine sulfate	10039-54-0	NA 181	NA 212	N/A	Unclassified
Hydroxyphenyl-salicylamide	NA 1396	NA 181 NA 197	3235	N/A	Unclassified
Inabenfide	82211-24-3	NA 205	NA 196	Fungicide	Unclassified
	32211-27-3	NA 203	NA 204	Plant Growth Regulator	Unclassified

Chemical Name	CACAMA	TT C TD L DC	12		
Onomical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Indanofan	133220-30-1	Code NA 232	Code	<del> </del>	
Indigo carmine	860-22-0	NA 146	NA 232	Herbicide	Unclassified
Inert (VOC reevaluation)	NA 877	NA 146	3530	Dye	Unclassified
Inert ingredients	NA 872	<del></del>	3973	N/A	Unclassified
Instex 10100 color concentrate	NA 88	NA 160	0	N/A	Unclassified
(black)	INA 00	NA 170	2615	Dye	Unclassified
Irganox 1010	6683-19-8	NA 173	2622		
Irganox 1010	6683-19-8	NA 173	3623	N/A	Unclassified
Irganox 1076	2082-79-3	NA 174	3523	N/A	Unclassified
Iso-amyl mercaptan	541-31-1		2617	N/A	Unclassified
Isobutyl acetate	110-19-0	NA 213	NA 212	N/A	Unclassified
Isobutyric acid	79-31-2	NA 143	3241	N/A	Unclassified
Isooctyl phosphate	12645-53-3	#####	2110	Preservative	Unclassified
2500cty1 phosphate	12043-33-3	NA 162	3258	Soap/Surfactant	Unclassified
Isopropanolamine nitrite	NA 87	NA 166	2015	, Adjuvant	
Isopropylamine	75-31-0		3245	N/A	Unclassified
Isoprothiolane	50512-35-1	NA 157	3246	N/A	Unclassified
Isoval	NA 1385	NA 189	NA 188	Fungicide	Unclassified
Isoxapyrifop	87757-18-4	NA 195	NA 195	Rodenticide	Unclassified
Ivory snow	NA 75	NA 208	NA 208	Herbicide	Unclassified
K 1A112	NA 77	NA 146	3674	N/A	Unclassified
Kelsol 5134		NA 148	2628	N/A	Unclassified
Ketoconazole	68309-52-4	NA 149	3526	Solvent	Unclassified
Korax	65277-42-1	NA 216	NA 215	Fungicide	Unclassified
Krynac 1122	2425-66-3	11302	351	N/A	Unclassified
Latex paint	NA 79	NA 151	2632	N/A	Unclassified
Leonil DB powder	NA 74	NA 144	2634	N/A	Unclassified
Lignoflex	NA 71	NA 139	2639	N/A	Unclassified
Limonia 19-11189	NA 68	NA 131	3265	N/A	Unclassified
Linseed-soya alkyd resin	NA 69	NA 132	2643	N/A	Unclassified
Lithium	NA 62	NA 117	2646	N/A	Unclassified
(perfluorooctane)sulfonate	29457-72-5	75004	5678	Insecticide,	Unclassified
Long oil alkyd 5070	NA 64	774 100		Adjuvant	
Lubrizol 544	NA 65	NA 120	2648	Insecticide	Unclassified
	1VA 05	NA 121	2649	Solvent,	Unclassified
Luna yellow NB-l 1270	NA 66	NA 122	-0651	Adjuvant	
Luviset cap	25035-26-1		2651	Dye	Unclassified
Macroplast UK 8202/UK 5400	NA 57	NA 123	3867	N/A	Unclassified
Macroplast VAX-11688/UK	NA 58	NA 108	2652	N/A	Unclassified
5400	14W 20	NA 109	2653	N/A	Unclassified
Malachite green	569-64-2	39504	266		
Maleic anhydride	108-31-6	NA 102	366	Dye	Unclassified
Maleic anhydride, polymer	37199-81-8	NA 102 NA 103	3272	N/A	Unclassified
with 2,4,4-trimethyl pentane,	3/199-81-8	NA 103	3271	N/A	Unclassified
sodium salt		İ			
Maleic hydrazide	123-33-1	51501	368	Diame Count	
<u></u>		31301	300	Plant Growth Regulator	Unclassified
Maleic hydrazide	10071-13-3	NA 210	NA 209	Plant Growth	
		141210	14A 209	Regulator	Unclassified
Maleic hydrazide, choline salt	71203-19-5	51504	NA 422	Plant Growth	I Inclassific 1
				Regulator	Unclassified
Maleic hydrazide,	5716-15-4	51502	778	Plant Growth	Unclassified
diethanolamine salt			_	Regulator	Ouclassified
Maleic hydrazide, potassium	28382-15-2	51503	2130	Plant Growth	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Cođe</u>	Code		
salt				Regulator,	
				Herbicide	
Malic acid	6915-15-7	51101	1364	Microbiocide	Unclassified
Mark 1500	NA 49	NA 96	2663	N/A	Unclassified
Mark 1600	NA 50	NA 97	2664	N/A	Unclassified
Mark 1601	NA 51	NA 98	2665	N/A	Unclassified
Mark 1603	NA 740.	NA 135	2666	N/A	Unclassified
Mark 1607	NA 569	NA 103	2667	N/A	Unclassified
Mark 495	NA 56	NA 107	2660	N/A	Unclassified
Mark 565A	NA 48	NA 95	2661	N/A	Unclassified
Mark 706	NA 739	NA 135	2662	N/A	Unclassified
Marter white 400	NA 52	NA 99	2668	N/A	Unclassified
Medicated block	NA 47	NA 92	3684	N/A	Unclassified
Mefenpyr	135591-00-3	NA 182	NA 181	Herbicide Safener	Unclassified
Mefenpyr-diethyl	135590-91-9	R47618	NA 177	Herbicide Safener	Unclassified
Menhaden oil	8002-50-4	NA 93	3686	N/A	Unclassified
Menthol	1490-04-6	51601	1074	Dog and Cat Repellent	Unclassified
Methoxy-2,4-dihydroxy pentene	NA 46	NA 89	3281	N/A	Unclassified
Methoxyphenone	41295-28-7	NA 209	NA 208	Herbicide	Unclassified
Methyl esters of cottonseed oil	61788-60-1	NA 148	3687	Adjuvant	Unclassified
Methyl ethyl ketone	78-93-3	44103	2680	Solvent	Unclassified
Methyl formate	107-31-3	53701	391	Fumigant	Unclassified
Methyl hydrogenated rosinate	8050-15-5	NA 82	3688	N/A	Unclassified
Methyl isocyanate	624-83-9	NA 180	NA 180	Breakdown product	Unclassified
Methyl isothiocyanate	556-61-6	68103	392	Fumigant, Insecticide, Herbicide, Nematicide, Breakdown product	Unclassified
Methyl methacrylate	80-62-6	NA 78	2151	N/A	Unclassified
Methylene blue	61-73-4	39505	387	Fungicide, Dye	Unclassified
Metosulam	139528-85-1	NA 184	NA 184	Herbicide	Unclassified
Milorganite	68512-89-0	NA 66	3693	N/A	Unclassified
MKH 6561	NA 1466	NA 217	NA 216	Herbicide	Unclassified
MON 4660	71526-07-3	#####	NA 162	N/A	Unclassified
Monosodium glutamate	32221-81-1	NA 59	2691	N/A	Unclassified
Morwet EFW	NA 36	NA 60	2693	Adjuvant	Unclassified
Morwet IP	NA 568	NA 102	3694	Adjuvant	Unclassified
Morwet IP	NA 887	NA 170	2694	Adjuvant	Unclassified
Multiresidue carbamate screen	NA 848	NA 158	4042	N/A	Unclassified
Multiresidue chlorinated hydrocarbon screen	NA 847	NA 158	4043	N/A	Unclassified
Multiresidue organophosphate screen	NA 846	NA 158	4044	N/A	Unclassified
Multiresidue triazine screen	NA 845	NA 157	4045	N/A	Unclassified
N,N-Diallyl-2,2- dichloroacetamide	37764-25-3	NA 187	NA 186	Herbicide Safener	Unclassified
n-Butyl acetate	142-62-1	#####	2434	N/A	Unclassified

Chemical Name	Chemical Name	CAS Number	II S EDA DO	CA Cha	I II. T	
N-methyl-2-pyrolidone	1141110	CAR INITIOE			Use Type	Chemical Class
Name	N-methyl-2-pyrrolidone	237900			NI/A	**
Naphthalene-formaldehyde			<del></del>			
Naphthalic anlhydride						
Maphthalic anhydride		7000-03-3	INA 36	2092		Unclassified
Naphthalic anhydride			ĺ			
Naphthalic anhydride			İ	1		
Neo-decanoic acid   26896-20-8   97501   2699   N/A   Unclassified   Neodol 25   63393-82-8   NA 51   3930   N/A   Unclassified   Neussence powder 411669   NA 781   NA 140   3003   N/A   Unclassified   Nitrograciofen   9966-21-0   NA 229   NA 229   Herbicide   Unclassified   Nitrograciofen   9966-21-0   NA 229   NA 229   Herbicide   Unclassified   Nitromethane   75-24-3   NA 49   3298   Solvent   Unclassified   Nitromethane   75-25-5   NA 49   3299   Solvent   Unclassified   Nitromethane   75-25-6   NA 49   3299   Solvent   Unclassified   Nitromethane   75-25-6   NA 49   3299   Solvent   Unclassified   Nitromethane   NA 1443   NA 214   NA 213   SoapSurfactant   Adjuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   SoapSurfactant   Adjuvant   Unclassified   Nonoxynol-9-phosphate   NA 29   NA 43   2706   Adjuvant   Unclassified   Nustacalcium 696   catalyst   NA 29   NA 35   2715   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 25   NA 37   2716   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 27   2716   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtacalcium 696   catalyst   NA 26   NA 27   2718   N/A   Unclassified   Ovex   80-33-1   20201   452   Insect Growth   Regulator   Cotalcium 697   Catalocococococococococococococococococococ	Naphthalic anhydride	81-84-5	NA 200	NA 208		77 1 10
Neo-decanoic acid   26896-20-8   97501   2699   N/A   Unclassified   Neodol 25   63393-82-8   NA 51   3930   N/A   Unclassified   Neuessence powder 411669   NA 781   NA 140   3003   N/A   Unclassified   Nitrore   Na 743   NA 140   3003   N/A   Unclassified   Nitrore   NA 743   NA 135   7204   N/A   Unclassified   Nitrore   NA 743   NA 135   7204   N/A   Unclassified   Nitrore   Na 743   NA 135   7204   N/A   Unclassified   Nitrore   Na 743   NA 149   3298   Solvent   Unclassified   Nitrore   Na 743   NA 149   3298   Solvent   Unclassified   Nitrore   Na 745   NA 181   NA 180   Fungicide   Na 181   NA 180   Na 181   Na 180   Na 181   Na 180   Na 181   Na 180   Na 181   Na 180   Na 181   Na 181   Na 180   Na 181   Na 180   Na 181   Na 180   Na 181   Na 180   Na 181   Na 181   Na 180   Na 181   Na 181   Na 180   Na 181		02 0.0	1111205	14A 200	P .	Unclassified
Neussence powder 411669   NA 781   NA 140   3003   NI/A   Unclassified   Nipyraclofen   99662-11-0   NA 229   NA 229   Herbicide   Nitrile rubber   NA 743   NA 135   2704   NI/A   Unclassified   Nitrile rubber   NA 743   NA 135   2704   NI/A   Unclassified   Nitro ethane   79-24-3   NA 49   3298   Solvent   Unclassified   Nitromethane   75-52-5   NA 42   3299   Solvent   Unclassified   Nitromethane   NA 743   NA 214   NA 213   ScapyKardeath   Adjuvant   Na 1443   NA 214   NA 213   ScapyKardeath   Adjuvant   Nonoxynol-9-phosphate   NA 29   NA 43   2706   Adjuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   ScapyKardeath   Adjuvant   Nonoxynol-9-phosphate   NA 29   NA 43   2706   Adjuvant   Unclassified   Nontormide   991-42-4   86201   2711   NI/A   Unclassified   Nuxtra calcium 6% catalyst   NA 25   NA 37   2716   NI/A   Unclassified   Nuxtra calcium 6% catalyst   NA 25   NA 37   2716   NI/A   Unclassified   Nuxtra calcium 6% catalyst   NA 26   NA 38   2717   NI/A   Unclassified   Nuxtra calcium 8% catalyst   NA 26   NA 38   2717   NI/A   Unclassified   Nuxtra manganese 9% catalyst   NA 15   NA 24   2718   NI/A   Unclassified   Ottochlorostyrene   29082-74-4   NA 215   NA 215   NI/A   Unclassified   Ottochlorostyrene   29082-74-4   NA 215   NA 215   NI/A   Unclassified   Otvus E5 paste concentrate   NA 3   NA 3   2726   NI/A   Unclassified   Oxapyrazon   4489-31-0   NA 209   NA 208   Herbicide   Unclassified   Oxapyrazon   4489-31-0   NA 209   NA 208   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   NI/A   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453197-14-9   NA 237   NA 217   Herbicide   Unclassified   Oxapyrazon   453	Neo-decanoic acid	26896-20-8	97501	2699		I Inglaggi G a 4
Neuessence powder 411669	Neodol 25					
Nipyraclofen	Neuessence powder 411669					
Nitrile rubber   NA 743   NA 135   2704   N/A   Unclassified   Nitro ethane   79-24-3   NA 49   3298   Solvent   Unclassified   Nitromethane   75-52-5   NA 42   3299   Solvent   Unclassified   Nitromethane   75-52-5   NA 42   3299   Solvent   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   Soap/Surfactant   Adjuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   Soap/Surfactant   Adjuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 215   Soap/Surfactant   Adjuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 215   NA 4djuvant   Unclassified   Non-ionic surfactants   NA 1443   NA 215   NA 35   Z715   N/A   Unclassified   Nustra calcium 6% catalyst   NA 23   NA 35   Z715   N/A   Unclassified   Nuxtra calcium 6% catalyst   NA 26   NA 38   Z717   N/A   Unclassified   Nuxtra calcium 8% catalyst   NA 26   NA 38   Z717   N/A   Unclassified   Nuxtra manganese 9% catalyst   NA 15   NA 24   Z718   N/A   Unclassified   Nylon   32131-17-2   NA 25   3703   N/A   Unclassified   Ottachlorostyrene   29082-74-4   NA 215   NA 215   N/A   Unclassified   Ottachlorostyrene   29082-74-4   NA 215   NA 215   N/A   Unclassified   Ottachlorostyrene   NA 3   NA 3   Z726   N/A   Unclassified   Ovabetrinil   74782-23-3   NA 205   NA 204   Herbicide   Unclassified   Oxapyrazon   4489-31-0   NA 209   NA 208   Herbicide   Unclassified   Oxapyrazon   4489-31-0   NA 209   NA 208   Herbicide   Unclassified   Oxapyrazon   25316-56-7   NA 217   NA 217   Herbicide   Unclassified   Oxapyrazon   25316-56-7   NA 218   NA 128   NA 219   NA 219   Na 2		99662-11-0				
Nitro ethane	Nitrile rubber			<del></del>		
Nitromethane	Nitro ethane					
Nitrothal-isopropyl   10552-74-6   NA 181   NA 180   Fungicide   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   Soap/Surfactant   Unclassified   Unclassified   Non-ionic surfactants   NA 1443   NA 214   NA 213   Soap/Surfactant   Unclassified   Unclassified   Nonoxynol-9-phosphate   NA 29   NA 43   2706   Adjuvant   Unclassified   Nuxtra calcium   Ma 23   NA 25   NA 35   2715   N/A   Unclassified   Nuxtra calcium   6% catalyst   NA 25   NA 37   2716   N/A   Unclassified   Nuxtra calcium   6% catalyst   NA 25   NA 37   2716   N/A   Unclassified   Nuxtra calcium   6% catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtra calcium   6% catalyst   NA 26   NA 38   2717   N/A   Unclassified   Nuxtra manganese   9% catalyst   NA 15   NA 24   2718   N/A   Unclassified   Nylon   32131-17-2   NA 25   3703   N/A   Unclassified   Nylon   32131-17-2   NA 215   NA 215   N/A   Unclassified   Orvus ES paste concentrate   NA 3   NA 3   2726   N/A   Unclassified   Ovex   80-33-1   20201   452   Insect Growth   Regulator   Unclassified   Capalyrazon   A489-31-0   NA 205   NA 204   Herbicide   Unclassified   Oxapyrazon   4489-31-0   NA 209   NA 208   Herbicide   Unclassified   Oxapyrazon   Salpyr-14-9   NA 231   NA 217   Herbicide   Unclassified   Oxapyrazon   Salpyr-14-9   NA 231   NA 217   Herbicide   Unclassified   Oxagidzed polyethylene   68441-17-8   NA 118   3713   N/A   Unclassified   Oxagidzed polyethylene   68441-17-8   NA 118   3713   N/A   Unclassified   P-Chloronitrobenzene   100-00-5   NA 183   NA 182   Insecticide   Unclassified   P-Chloronitrobenzene   100-00-5   NA 183   NA 182   Insecticide   Unclassified   P-Chloronitrobenzene   100-00-5   NA 183   NA 182   Insecticide   Unclassified   P-Chloronitrobenzene   NA 380   NA 688   3715   N/A   Unclassified   P-Chloronitrobenzene   NA 380   NA 688   3715   N/A   Unclassified   P-Chloronitrobenzene   NA 380   NA 680   2733   Solvent   Unclassified   P-Chloronitrobenzene   NA 380   NA 680   2734   N/A   Unclassified   Unclassified   P-Chloroni	Nitromethane					
Non-ionic surfactants	Nitrothal-isopropyl					
Nonoxynol-9-phosphate   NA 29						
Nonoxyno1-9-phosphate			212217	117 213		Unclassified
Norbormide	Nonoxynol-9-phosphate	NA 29	NA 43	2706		I Incluse: C. J
Nuostabe v-1913	Norbormide	991-42-4				
Nuxtra calcium 6% catalyst   NA 25   NA 37   2716   N/A   Unclassified	Nuostabe v-1913					
Nuxtra calcium 8% catalyst   NA 26	Nuxtra calcium 6% catalyst					
Nuxtra manganese 9% catalyst   NA 15	Nuxtra calcium 8% catalyst					
Nylon   32131-17-2   NA 25   3703   N/A   Unclassified	Nuxtra manganese 9% catalyst					
Octachlorostyrene         29082-74-4         NA 215         N/A         Unclassified           Orvus ES paste concentrate         NA 3         NA 3         2726         N/A         Unclassified           Ovex         80-33-1         20201         452         Insect Growth Regulator         Unclassified           Oxabetrinil         74782-23-3         NA 205         NA 204         Herbicide Safener         Unclassified           Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide Herbicide Unclassified         Unclassified           Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide Herbicide Unclassified         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 218         Herbicide Unclassified         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide Unclassified         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           P-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Panasol AN-2         NA 381         NA 690         2733         Solvent         Unclassified <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Orvus ES paste concentrate         NA 3         NA 3         2726         N/A         Unclassified           Ovex         80-33-1         20201         452         Insect Growth Regulator         Unclassified           Oxabetrinil         74782-23-3         NA 205         NA 204         Herbicide Safener         Unclassified           Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide         Unclassified           Oxapyrazon         4489-31-0         NA 209         NA 208         Herbicide         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           P-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Panasol AN-2         NA 381         NA 690         2733         Solvent         Unclassified           Paraformaldehy	Octachlorostyrene					
Ovex         80-33-1         20201         452         Insect Growth Regulator         Unclassified           Oxabetrinil         74782-23-3         NA 205         NA 204         Herbicide Safener         Unclassified           Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide         Unclassified           Oxapyrazon         4489-31-0         NA 209         NA 208         Herbicide         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 181         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           p-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Panasol AN -2         NA 381         NA 690         2733         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Insecticide         Unclassified						
Oxabetrinil   74782-23-3						
Oxadiargyl   39807-15-3   NA 205   NA 204   Herbicide Safener				132		Unclassified
Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide         Unclassified           Oxapyrazon         4489-31-0         NA 209         NA 208         Herbicide         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           P-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Panasol AN-2         NA 381         NA 688         3715         N/A         Unclassified           Panasol AN-3         NA 382         NA 691         2732         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Insecticide         Unclassified           Perfluoroctane sullfonate         NA 1456         NA 216         NA 215         Insecticide         Unclassified           Pe	Oxabetrinil	74782-23-3	NA 205	NA 204		Unclassified
Oxadiargyl         39807-15-3         NA 211         NA 211         Herbicide         Unclassified           Oxapyrazon         4489-31-0         NA 209         NA 208         Herbicide         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           p-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Panasol AN -2         NA 381         NA 688         3715         N/A         Unclassified           Panasol AN-3         NA 382         NA 691         2732         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Fungicide, Insecticide         Unclassified           Perfluoroctane sulfonate         NA 1456         NA 233         NA 233         Herbicide         Unclassified						Onciassified
Oxapyrazon         4489-31-0         NA 209         NA 208         Herbicide         Unclassified           Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           p-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Paint         NA 380         NA 688         3715         N/A         Unclassified           Panasol AN-2         NA 381         NA 690         2733         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Fungicide, Insecticide         Unclassified           Perfluorooctane sulfonate         NA 1889         NA 170         2734         N/A         Unclassified           Perflume 08-28         NA 750         NA 216         NA 215         Insecticide         Unclassified           Perfum		39807-15-3	NA 211	NA 211		Unclassified
Oxapyrazon sodium         25316-56-7         NA 217         NA 217         Herbicide         Unclassified           Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           p-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Paint         NA 380         NA 688         3715         N/A         Unclassified           Panasol AN -2         NA 381         NA 690         2733         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Fungicide, Insecticide         Unclassified           Perfluoroactane sulfonate         NA 889         NA 170         2734         N/A         Unclassified           Perflume 08-28         NA 750         NA 136         2740         Fragrance         Unclassified           Perfume, chem-mask C no. 280         NA 367         NA 673         2742         Fragrance         Unclassified           <		4489-31-0	NA 209	NA 208		
Oxaziclomefone         153197-14-9         NA 233         NA 233         Herbicide         Unclassified           Oxidized polyethylene         68441-17-8         NA 118         3713         N/A         Unclassified           Oxygenated solvents         NA 379         NA 687         1767         Solvent         Unclassified           p-Chloronitrobenzene         100-00-5         NA 183         NA 182         Insecticide         Unclassified           Paint         NA 380         NA 688         3715         N/A         Unclassified           Panasol AN -2         NA 381         NA 690         2733         Solvent         Unclassified           Panasol AN-3         NA 382         NA 691         2732         Solvent         Unclassified           Paraformaldehyde         30525-89-4         43002         456         Microbiocide, Insecticide         Unclassified           Pareth 91-8         NA 889         NA 170         2734         N/A         Unclassified           Perfluorooctane sulfonate         NA 1456         NA 216         NA 233         Herbicide         Unclassified           Perfume 08-28         NA 750         NA 136         2740         Fragrance         Unclassified           Perfume, chem-mask C no. 280			NA 217	NA 217		
Oxidized polyethylene Oxygenated solvents Oxygenated solvents NA 379 NA 687 NA 182 NA 182 Insecticide Unclassified Paint NA 380 NA 688 NA 688 NA 688 Panasol AN -2 NA 381 NA 690 Panasol AN-3 NA 382 NA 691 Paraformaldehyde  Paraformaldehyde  Pareth 91-8 Pareth 91-8 Perfluorooctane sulfonate Perfluorooctane sulfonate Perflume 08-28 Perflume, chem-mask C no. 280 Perflume, compound 2-2723 NA 368 NA 136 NA 136 Perflume compound 2-2723 NA 136 NA 136 Perflume, compound 2-2723 NA 136 NA 136 Perflume, compound 2-2723 NA 136 Perflume compound 2-2723 NA 136 Perflume compound 2-2723 NA 136 Perflume, compound 2-2723 NA 136 Perflume, compound 2-2723 NA 136 Perflume compound 2-2723 Perflume compound 2-2723		153197-14-9	NA 233			7
Oxygenated solvents p-Chloronitrobenzene 100-00-5 NA 183 NA 182 Insecticide Unclassified Paint NA 380 NA 688 3715 N/A Unclassified Panasol AN -2 NA 381 NA 690 Panasol AN-3 NA 382 NA 691 Paraformaldehyde  Paraformaldehyde  Pareth 91-8 Perfume 08-28 Perfume, colonial bouquet R095 Perfume, compound 2-2723 NA 368 NA 672 Perfume, compound 2-2723 NA 752 NA 136 NA 186 NA 187 NA 187 NA 187 NA 187 NA 187 NA 187 NA 183 NA 184 NA 185 NA		68441-17-8	NA 118	3713		
Paint NA 380 NA 688 3715 N/A Unclassified Panasol AN -2 NA 381 NA 690 2733 Solvent Unclassified Panasol AN-3 NA 382 NA 691 2732 Solvent Unclassified Paraformaldehyde 30525-89-4 43002 456 Microbiocide, Pareth 91-8 NA 889 NA 170 2734 N/A Unclassified Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfume 08-28 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified		NA 379	NA 687	1767		
Paint NA 380 NA 688 3715 N/A Unclassified Panasol AN -2 NA 381 NA 690 2733 Solvent Unclassified Panasol AN-3 NA 382 NA 691 2732 Solvent Unclassified Paraformaldehyde 30525-89-4 43002 456 Microbiocide, Fungicide, Insecticide Pareth 91-8 NA 889 NA 170 2734 N/A Unclassified Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet 8095 Perfume, compound 2-2723 NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified		100-00-5	NA 183	NA 182		
Panasol AN -2 Panasol AN -3 Panasol AN -3 NA 382 NA 691 Paraformaldehyde  Paraformaldehyde  Pareth 91-8 Perfume 08-28 Perfume, compound 2-2723 NA 368 Perfume, compound 2-2723 NA 368 NA 369 NA 3750 Perfume, compound 2-2723 NA 3750 NA 381 NA 690 PA 2733 Solvent Unclassified Unclassified Unclassified Unclassified Unclassified Valor			NA 688	3715	N/A	
Panasol AN-3 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 382 Paraformaldehyde  NA 388 NA 170 Paraformaldehyde  NA 388 Paraformaldehyde  NA 389 Paraformaldehyde  NA 388 Paraformaldehyde  NA 388 Paraformaldehyde  NA 388 P			NA 690	2733		
Pareth 91-8 NA 889 NA 170 2734 N/A Unclassified  Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified  Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified  Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified  Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified  Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified  Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified  Perfume compound 44 368/A NA 572 NA 136 2745 Fragrance Unclassified			NA 691	2732		
Pareth 91-8 NA 889 NA 170 2734 N/A Unclassified Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified	Paraformaldehyde	30525-89-4	43002	456	Microbiocide.	
Pareth 91-8 NA 889 NA 170 2734 N/A Unclassified Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified				·		
Pentoxazone 110956-75-7 NA 233 NA 233 Herbicide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified	7 1 24 2					
Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perfluorooctane sulfonate NA 1456 NA 216 NA 215 Insecticide Unclassified Perflume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perflume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified Perflume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perflume, colonial bouquet NA 368 NA 674 2744 Fragrance Unclassified Perflume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified Perflume compound 44 368/c NA 379 NA				2734	N/A	Unclassified
Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified Perfume compound 44 368/n NA 379					Herbicide	
Perfume 08-28 NA 750 NA 136 2740 Fragrance Unclassified  Perfume bouquet no. 3 NA 366 NA 672 2741 Fragrance Unclassified  Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified  Perfume, colonial bouquet 8095 NA 368 NA 674 2744 Fragrance Unclassified  Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified					Insecticide	
Perfume, chem-mask C no. 280 NA 366 NA 672 2741 Fragrance Unclassified Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified Perfume, colonial bouquet 8095 NA 368 NA 674 2744 Fragrance Unclassified Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified					Fragrance	
Perfume, chem-mask C no. 280 NA 367 NA 673 2742 Fragrance Unclassified  Perfume, colonial bouquet 8095  Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified  Perfume compound 44 368/n NA 379 NA 379 NA 379 Unclassified				2741		
Perfume, colonial bouquet 8095  Perfume, compound 2-2723  NA 752  NA 136  2744  Fragrance  Unclassified  Perfume compound 44 368/6  NA 270  NA 136  2745  Fragrance  Unclassified				2742		
Perfume, compound 2-2723 NA 752 NA 136 2745 Fragrance Unclassified		NA 368	NA 674	2744		
Perfirme compound 44 269/2 NA 270						
					Fragrance	Unclassified
	retiume, compound 44.368/g	NA 370	NA 676	2747	Fragrance	

Chemical Name	CAS Number	U.S. EPA PC	ICA CI	<del>                                     </del>	
	CAB INITIDEI	Code	CA Chem Code	Use Type	Chemical Class
Perfume, compound bouquet	NA 369	NA 675	2746	E	ļ
EC	141305	14A 073	2/40	Fragrance	Unclassified
Perfume, DL 10613	NA 823	NA 151	3888	Framerica	TT 1 :0 :
Perfume, eaudesol mal	NA 371	NA 677	2748	Fragrance Fragrance	Unclassified
(special)		1410//	2/70	Flagrance	Unclassified
Perfume, fragrance oil 6198	NA 372	NA 678	2750	Fragrance	TT1'C' 1
AG			2,50	Tragrance	Unclassified
Perfume, fresh meadows #651	NA 753	NA 136	2751	Fragrance	Unclassified
Perfume, herbal fragrance oil	NA 354	NA 657	2753	Fragrance	Unclassified
no. 062					Onciassined
Perfume, malamasque no. 59	NA 355	NA 658	2754	Fragrance	Unclassified
Perfume, malathion 21-639	NA 356	NA 659	2755	Fragrance	Unclassified
Perfume, marbelle 72160A	NA 357	NA 660	2756	Fragrance	Unclassified
Perfume, mimosa no. 5	NA 754	NA 136	2757	Fragrance	Unclassified
Perfume, neutroleum alpha	NA 358	NA 661	2758	Fragrance	Unclassified
Perfume, new mown hay	NA 359	NA 662	2759	Fragrance	Unclassified
Perfume, norda EC-137	NA 360	NA 663	2760	Fragrance	Unclassified
Perfume, pet perfume # 27253	NA 361	NA 664	2761	Fragrance	Unclassified
Perfume, phase b-5	NA 755	NA 136	2762	Fragrance	Unclassified
Perfume, R-7402	NA 362	NA 665	2763	Fragrance	Unclassified
Perfume, veilex 40019	NA 363	NA 666	2764	Fragrance	Unclassified
Perfume, washroom cleaner	NA 364	NA 667	2765	Fragrance	Unclassified
bouquet # 152-587				Lagrance	Onciassined
Phenyl ether	101-84-8	NA 653	3324	N/A	Unclassified
Phosametine	NA 1400	NA 197	NA 196	Herbicide	Unclassified
Phosdiphen	36519-00-3	NA 209	NA 209	Fungicide	Unclassified
Phosphoproteins	NA 350	NA 646	1250	N/A	Unclassified
Phthalaldehyde	643-79-8	#####	5107	Microbiocide	Unclassified
Phthalide	27355-22-2	NA 205	NA 205	Fungicide	Unclassified
Phthalo green	NA 348	NA 642	2779	Dye	Unclassified
Picaridin	NA 1434	NA 212	NA 211	Insect	Unclassified
				Repellent	Chelassified
Pigment blue 29	57455-37-5	NA 643	2780	Dye	Unclassified
Pigment green 7	1328-53-6	NA 636	3870	Dye	Unclassified
Pigment red 178	3049-71-6	NA 637	3869	Dye	Unclassified
Pigment red 57:1	6887-51-9	NA 171	3868	Dye	Unclassified
Pigment red no. 48	16013-44-8	NA 149	3729	Dye	Unclassified
Pimaricin	7681-93-8	NA 203	NA 202	Fungicide	Unclassified
Piperalin	3478-94-2	97003	488	Fungicide	Unclassified
Piperine	94-62-2	NA 223	NA 223	N/A	Unclassified
Piproctanyl	69309-47-3	NA 209	NA 209	Plant Growth	Unclassified
P:				Regulator	onomboniog
Piproctanyl bromide	56717-11-4	NA 218	NA 217	Plant Growth	Unclassified
Plastic nol-				Regulator	
Plastic polymers	NA 339	NA 625	764	Adjuvant	Unclassified
Plurafac B-26	69227-21-0	NA 626	2782	N/A	Unclassified
Plurafac C-17	69227-21-0	NA 137	2783	N/A	Unclassified
Pluraflo E4A	NA 340	NA 627		Soap/Surfactant	Unclassified
Pluronic 10-R-5	NA 345	NA 632	2790	N/A	Unclassified
Pluronic 1-101	NA 759	NA 137	2788	N/A	Unclassified
Pluronic L-62 LF	NA 342	NA 629	2786	N/A	Unclassified
Pluronic L61	NA 341	NA 628	2785	N/A	Unclassified
Pluronic 163	NA 343	NA 630	2787	N/A	Unclassified
Pluronic P-104	NA 344	NA 631	2789	N/A	Unclassified

Chemical Name	7 01027	Two is			
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
PMS-5406-T pigment	274.246	Code	Code	ļ	
Po-san	NA 346	NA 633	2791	N/A	Unclassified
Po-san	37339-61-0	98804	NA 861	N/A	Unclassified
	76930-44-4	98804	NA 862	N/A	Unclassified
Poly(oxyethylene)	31512-74-0	69183	1576	Microbiocide	Unclassified
(dimethylimino) ethylene (dimethylimino) ethylene			ŀ		
dichloride		1		į	
Poly-i-para-menthene	24262.01.4	37. 4.			
1 Ory-1-para-mentmene	34363-01-4	NA 610	1314	Insect Growth	Unclassified
Polyacrylamide polymer	2592984	374 694		Regulator	
Polyalkylene ether		NA 634	2111	Adjuvant	Unclassified
Polyamide resin	NA 347	NA 635	2271	Adjuvant	Unclassified
Polyamine polymer	NA 621	NA 112	2795	N/A	Unclassified
Polyhexamethylene	NA 334	NA 620	1907	Adjuvant	Unclassified
biguanidine	32289-58-0	<del>                                      </del>	2258	Microbiocide,	Unclassified
Polymer emulsion K	NIA 220	371 616		Fungicide	
Polymerized acrylic acid	NA 329	NA 611	2804	Adjuvant	Unclassified
Polyoxin	2592860	52902	3738	Adjuvant	Unclassified
Polyurethane	11113-80-7	NA 194	NA 193	Fungicide	Unclassified
Polyvinyl butyral resin	NA 426	NA 768	3770	N/A	Unclassified
	NA 427	NA 769	2820	N/A	Unclassified
Polyvinyl chloride	9002-86-2	NA 770	2821	N/A	Unclassified
Polyvinylpyrrolidone- formaldehyde complex	82010-83-1	43003	NA 367	Microbiocide	Unclassified
Polyvis O-SH	274 400				
Poly[hydroxyethylene(dimethy	NA 428	NA 771	2823	N/A	Unclassified
liminio)ethylene(dimethylimini	NA 1512	NA 223	NA 222	Microbiocide	Unclassified
o)methylene dichloride]					
Potassium 3-(2-(2-((2-(2-	NA 998	NIA 770	22.52		
hydroxy ethyl) ethyl) octadecyl	NA 996	NA 779	3352	Preservative	Unclassified
amino)ethoxy) propionate					
Potassium N-ethyl perfluoro	NA 997	NA 777	3354		
octane sulfonamide acetate	101757	NA ///	3334	Insecticide,	Unclassified
Probenazole	27605-76-1	NA 205	NA 205	Adjuvant Fungicide,	
L		141 203	IVA 205	Microbiocide	Unclassified
Propellant A-46	NA 441	NA 794	2834	Propellant	- TT1- 10 1
Propellant A-70	NA 762	NA 137	2835	Propellant	Unclassified
Propellant A-91	NA 442	NA 795	2836	Propellant	Unclassified
Propellant B-46	NA 443	NA 796	3887	Propellant	Unclassified
Propidine	NA 1449	NA 215	NA 214	Insect	Unclassified
			1161 617	Repellent	Unclassified
Propionic acid	79-09-4	77702	505	Fungicide,	Unclassified
	1			Microbiocide,	Onclassined
		1		Preservative	
Propyl-3-t-butylphenoxyacetate	NA 1407	NA 198	NA 197	Plant Growth	Unclassified
				Regulator	Oliciassilied
Pyrazolynate Pyrazolynate	58011-68-0	NA 205	NA 205	Herbicide	Unclassified
Pyribenzoxim	168088-61-7	NA 233	NA 233	Herbicide	Unclassified
Pyriminobac	136191-56-5	NA 206	NA 205	Herbicide	Unclassified
Pyroquilone	57369-32-1	NA 190	NA 189	Fungicide	Unclassified
Quinacetol sulfate	57130-91-3	NA 210	NA 209	Fungicide	Unclassified
Quinizarin green SS	128-80-3	NA 109	3374	Dye	Unclassified
Quinoclamine	2797-51-5	NA 185	NA 184	Herbicide,	Unclassified
				Algaecide	Oliciassified
Quinoxyfen	124495-18-7	NA 206	NA 205	Fungicide	Unclassified
Resins and polymers	NA 1374	NA 194	NA 193	Pruning Aid,	Unclassified
				- Aumig Miu,	Unclassified

Chemical Name	CAS Number	II C EDA DO	la di	T	
<u> </u>	CAS Nutriber	U.S. EPA PC Code		Use Type	Chemical Class
		Code	Code	Adjuvant	
RH - 2485	NA 1467	NA 217	NA 217	Insecticide	77
Rhodamine B	81-88-9	NA 138	2846		Unclassified
Sebacic acid	111-20-6	NA 187	NA 186	Dye Repellent	Unclassified
Sec-butylamine	13952-84-6	4214	1704	Fungicide	Unclassified
Seconal	76-73-3	NA 190	NA 189		Unclassified
Secret formula no. 1	NA 2	NA 2	1837	N/A N/A	Unclassified
		NA Z	1057	IN/A	Unclassified,
Secret formula no. 2	NA 458	NA 820	1838	N/A	Unclassified
Silthiofam	175217-20-6	NA 210	NA 210	Fungicide	Unclassified
Sintofen	130561-48-7	NA 185	NA 184	Plant Growth	Unclassified
		- 112 200	1121104	Regulator	Unclassified
Sodium 2-ethylhexanoate	19766-89-3	NA 214	NA 214	Fungicide,	Unclassified
· · · · · · · · · · · · · · · · · · ·				Microbiocide	Ouclassified
Sodium caprylate	29372	79063	3388	N/A	Unclassified
Sodium chloroacetate	3926-62-3	#####	NA 141	Herbicide	Unclassified
Sodium diacetoneketogulonate	NA 1397	NA 197	NA 196	Plant Growth	Unclassified
				Regulator	Cholassified
Sodium gluconate	527-07-1	105	3406	N/A	Unclassified
Sodium methyl sulfate	512-42-5	NA 145	3417	N/A	Unclassified
Sodium petroleum sulfonate	68608-26-4	79035	3431	Insecticide,	Unclassified
G II				Adjuvant	
Sodium propionate	137-40-6	77703	3434	Fungicide,	Unclassified
Solulan 98	371.454			Preservative	
Solulan J-575	NA 474	NA 874	2867	Solvent	Unclassified
Solvent red 49	NA 763	NA 138	2868	N/A	Unclassified
Spiroxamine	509-34-2	NA 875	3900	Dye	Unclassified
Sponto 168	118134-30-8	NA 202	NA 202	Fungicide	Unclassified
Sponto 232T	NA 484	NA 888	2875	N/A	Unclassified
Sponto 234T	NA 492	NA 896	2885	N/A	Unclassified
Sponto AK-30-02BT	NA 766	NA 138	2886	N/A	Unclassified
Sponto AK31-27A	NA 485	NA 889	2876	N/A	Unclassified
Sponto AK31-27A  Sponto AK31-27B	NA 764	NA 138	2877	N/A	Unclassified
Sponto AK31-27B	NA 486	NA 890	2878	N/A	Unclassified
Sponto AK31-56A	NA 487	NA 891	2879	N/A	Unclassified
Sponto AK31-56B	NA 488 NA 765	NA 892	2880	N/A	Unclassified
Sponto AK31-56M		NA 138	2881	N/A	Unclassified
Sponto N-140B	NA 632	NA 116	3558	N/A	Unclassified
Sponto N-300B	NA 489	NA 893	2882	N/A	Unclassified
Sponto N-500B	NA 490	NA 894	2883	N/A	Unclassified
Sta-pro 3000	NA 491 NA 493	NA 895	2884	N/A	Unclassified
Stepan C-65 methyl ester		NA 897	2889	N/A	Unclassified
Stepantan A	NA 496	NA 903	2893	N/A	Unclassified
Stepfac 8172	NA 497	NA 904	2894	N/A	Unclassified
Sterilix	NA 767	NA 138	2895	N/A	Unclassified
Sterox NJ	NA 656	NA 121	550	Microbiocide	Unclassified
Stoddard solvent	NA 498	NA 905	2896	N/A	Unclassified
Stoddard Sorvent	8052-41-3	63504	NA 516	Solvent,	Unclassified
				Herbicide,	ł
Styrene acrylic copolymer	25085-34-1	NA 907	2452	Insecticide	
Styrene/pvp copolymer	25086-29-7	NA 907 NA 908	3457	Adjuvant	Unclassified
Sudan III	85-86-9	NA 908 NA 909	3812	Adjuvant	Unclassified
Sulcotrione	99105-77-8	NA 185	3459	Dye	Unclassified
	2220 11-0	111 103	NA 184	Herbicide	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chemical Class
Sulfated dipentane	NA 500	NA 911	3460	N/A	Unclassified
Sulfonated cod liver oil	NA 1464	NA 217	NA 216	N/A	Unclassified
Sulglycapin	51068-60-1	NA 233	NA 233	Herbicide	Unclassified
Sure sol 180	NA 505	NA 916	2903	Solvent	Unclassified
Surflo B11	NA 606	NA 110	2904	Soap/Surfactant	Unclassified
Surflo B13	NA 506	NA 917	2905	Soap/Surfactant	Unclassified
Surflo B16	NA 507	NA 918	2906	Soap/Surfactant	Unclassified
Surflo B17	NA 508	NA 919	2907	Soap/Surfactant	Unclassified
Surflo B19	NA 770	NA 139	2908	Soap/Surfactant	Unclassified
Sustane 3	NA 622	NA 113	2909	N/A	Unclassified
T-DET N-9.5	NA 513	NA 928	2917	N/A	
T-mulz 565	NA 528	NA 955	2944	Adjuvant	Unclassified
T-mulz 94W	NA 531	NA 958	2949	Adjuvant	Unclassified
T-mulz AO2	NA 772	NA 139	2943	N/A	Unclassified
T-mulz O	NA 529	NA 956	2945	Adjuvant	Unclassified
T-mulz PB	NA 530	NA 957	2946	Adjuvant	Unclassified
T-Mulz VO	NA 610	NA 111	2947	N/A	Unclassified
T-mulz W	NA 773	NA 139	2948		Unclassified
Tabu powder	NA 510	NA 922	1462	N/A	Unclassified
Tacks	NA 818	NA 151	3816	N/A	Unclassified
Tenneco 225F PVC resin	NA 514	NA 930	2919	N/A	Unclassified
Tenneco T500-100	NA 771	NA 139	2920	N/A	Unclassified
Tenox 2	NA 515	NA 931	2920	N/A	Unclassified
Tenox 4	NA 516	NA 932		Preservative	Unclassified
Tenox R	NA 517	NA 933	2922	Preservative	Unclassified
Tenox S-1	NA 518	NA 934	2923 2924	Preservative	Unclassified
Tensiofix B7416	NA 895	NA 171		Preservative	Unclassified
Tensiofix B7453	NA 896	NA 171	3943	Soap/Surfactant	Unclassified
Tergitol 15-S-12	NA 623	NA 113	3944	Soap/Surfactant	Unclassified
Tergitol 15-S-12 acrylate	NA 519	NA 935	2926	N/A	Unclassified
Tergitol 15-S-20	NA 520	NA 936	2927	N/A	Unclassified
tert-Butylamine Endothall	26648-01-1	38909	2928	N/A	Unclassified
			NA 327	Herbicide, Defoliant	Unclassified
Tetrahydrofuran	109-99-9	NA 944	2933	Solvent	Unclassified
Texaphor special	NA 524	NA 951	2935	N/A	Unclassified
TF-310	NA 525	NA 952	3524	N/A	Unclassified
Thanite	115-31-1	47101	586	Insecticide	Unclassified
Thickener, unknown	NA 526	NA 953	2936	Adjuvant	Unclassified
Thicyofen	116170-30-0	NA 210	NA 209	Fungicide	Unclassified
Thidiazimin	123249-43-4	NA 230	NA 229	Herbicide	Unclassified
Thiocyclam	31895-21-3	NA 182	NA 181	Insecticide	Unclassified
Thiocyclam hydrogen oxalate	31895-22-4	#####	NA 104	Insecticide	Unclassified
Thixatrol ST	NA 820	NA 151	3853	N/A	Unclassified
Toximul 500	NA 532	NA 963	2951	Insecticide	Unclassified
Toximul 850 m	NA 826	NA 152	3918	N/A	Unclassified
Toximul D	NA 533	NA 964	2952	N/A	Unclassified
Toximul H	NA 534	NA 965	2953	N/A	Unclassified
Toximul P	NA 774	NA 140	2954	N/A	Unclassified
Toximul TA-5	NA 535	NA 966	2955	N/A	Unclassified
Triapenthenol	76608-88-3	NA 190	NA 189	Plant Growth	Unclassified
T-1-1-1				Regulator	
Triaryl methane	NA 536	NA 967	2957	N/A	Unclassified
Triazoxide	72459-58-6	NA 185	NA 184	Fungicide	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		<u>SECTION CHARA</u>
Tributyl phosphate	126-73-8	NA 969	3480	N/A	Unclassified
Trichlamide	70193-21-4	NA 210	NA 209	Fungicide	Unclassified
Trichloropyridinol	NA 1338	NA 180	NA 179	Breakdown	Unclassified
				product	•
Tridemorph	24602-86-6	#####	NA 987	Fungicide	Unclassified
Tridemorph	81412-43-3	######	NA 201	Fungicide	Unclassified
Triethyl phosphate	78-40-0	NA 979	3489	N/A	Unclassified
Trioxymethylene	110-88-3	NA 190	NA 189	Microbiocide,	Unclassified
<b>G</b> : <b>G</b> : <b>G</b>				Fungicide	
Triton CF-10	NA 542	NA 991	2968	Soap/Surfactant	Unclassified
Triton X-363	NA 612	NA 111	2969	Soap/Surfactant	Unclassified
Trycol NP-4	NA 775	NA 140	2970	N/A	Unclassified
Trycol NP-6	NA 543	NA 993	2971	N/A	Unclassified
Trycol NP-9	NA 544	NA 994	2972	N/A	Unclassified
Tryfac 5566	NA 545	NA 995	2973	N/A	Unclassified
Tryfac 910-K	NA 546	NA 996	2974	N/A	Unclassified
Turgasept	NA 776	NA 140	2975	N/A	Unclassified
Ucar solution vinyl VAGH	NA 548	NA 999	2976	N/A	Unclassified
UL-94 HF1 listed polyester foam	NA 549	NA 100	2977	N/A	Unclassified
Unknown (In EPA Product	NA 1175	67333	274 165	<del></del>	
data w/o name)	NA 1175	67323	NA 165	Fungicide	Unclassified
Unknown (In EPA Product	NA 1176	69144	NA 165	36:1:1	
data w/o name)	NA 1170	09144	NA 103	Microbiocide	Unclassified
Unknown (In EPA Product	NA 1177	69162	NA 165	Microbiocide	Unclassified
data w/o name)		05,102	1121 103	Microprocide	Onclassined
Unknown (In EPA Product	NA 1178	79061	NA 165	Microbiocide	Unclassified
data w/o name)					Onomissincu
Unknown (In EPA Product	NA 1179	#####	NA 166	Microbiocide	Unclassified
data w/o name)					
Unknown (In EPA Product	NA 1180	#####	NA 166	Microbiocide	Unclassified
data w/o name)					
Unknown (In EPA Product data w/o name)	NA 1181	#####	NA 166	Microbiocide	Unclassified
Unknown (In EPA Product	NA 1182	20000	271 455		
data w/o name)	NA 1182	#####	NA 166	N/A	Unclassified
Unknown (In EPA Product	NA 1183	#####	NA 166	77/1	
data w/o name)	1VA 1105	<del>"""""</del>	1VA 100	N/A	Unclassified
Urethane adhesive, parts a & b	NA 551	NA 100	2979	N/A	Unclassified
Versalon 1112	NA 613	NA 111	2984	N/A	Unclassified
Versamid resins	NA 651	NA 119	3822	N/A	Unclassified
Vinyl acetate	108-05-4	NA 100	2116	N/A	Unclassified
Vinyl polymer	NA 680	NA 125	1754	Adjuvant	Unclassified
Vinyl resin, synthetic	NA 554	NA 100	1533	N/A	Unclassified
Vitamin K3	58-27-5	6319	NA 89	N/A	Unclassified
Water soluble dyes	NA 1517	NA 223	NA 223	Dye	Unclassified
Waxes	NA 1376	NA 194	NA 194	Pruning Aid,	Unclassified
				Adjuvant	Onciassined
Wickenol 535	NA 779	NA 140	2989	N/A	Unclassified
Wing stay V	NA 561	NA 101	2990	N/A	Unclassified
Witafrol 7420	NA 625	NA 113	2991	N/A	Unclassified
Witcamine tam-45	NA 562	NA 101	2992	N/A	Unclassified
Witco C-5752	NA 563	NA 101	3882	N/A	Unclassified
Witconate p-1020bu	NA 614	NA 111	3884	N/A	Unclassified

Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
Witconol 1S-108	NA 564	NA 101	2993	N/A	Unclassified
Zein	9010-66-6	NA 102	3504	N/A	Unclassified

<sup>\*</sup> N/A = Not Available\

# II. Augmenting the Sensitivity of Plants to Herbicides

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In certain embodiments of the invention, the effectiveness of herbicides is augmented by methods and compositions for the contemporaneous administration of one or more ectophosphatase inhibitors in combination with herbicides. Such applications may, in addition to increasing the effectiveness of herbicides, allow the use of reduced concentrations of herbicides, thereby providing cost and environmental benefits.

Specifically contemplated by the invention are compositions comprising one or more ectophosphatase inhibitor(s) in combination with one or more herbicide(s) listed in Table 1. In one embodiment of the invention, the ectophosphatase inhibitor may or may not be a compound selected from formula I-XX. The herbicidal compositions or other compositions formulated for agricultural use, including compositions comprising insecticides and growth regulators, may be used with potentially any plant. The term "plant," as used herein, refers to any type of plant. The inventors have provided below an exemplary description of some plants that may be used with the invention. However, the list is provided for illustrative purposes only and is not limiting, as other types of plants will be known to those of skill in the art and could be used with the invention.

Non-limiting examples of plant genera that may be treated in accordance with the invention include: Abutilon, Amaranthus, Artemisia, Asclepias, Avena, Axonopus, Borreria, Brachiaria, Brassica, Bromus, Chenopodium, Cirsium, Commelina, Convolvulus, Cynodon, Cyperus, Digitaria, Echinochloa, Eleusine, Elymus, Equisetum, Erodium, Helianthus, Imperata, Ipomoea, Kochia, Lolium, Malva, Oryza, Ottochloa, Panicum, Paspalum, Phalaris, Phragmites, Polygonum, Portulaca, Pteridium, Pueraria, Rubus, Salsola, Setaria, Sida, Sinapis, Sorghum, Triticum, Typha, Ulex, Xanthium, and Zea. Non-limiting common types of plants that may be controlled in accordance with the invention include varieties of grasses, broad leafs, succulents, trees and shrubs, barley, black nightshade, broadleaf signal grass, burcumber, chickweed, common ragweed, crabgrass, field pennycress, rough fleabane, foxtail, giant ragweed, goose grass, groundcherry, hemp sesbarria, henbit, jungle rice, kochia, lambs quarters, morning-glory spp., mustard, fall and Texas panicum, palma amaranth, prickly sida (teaweed), red rice, rye, seedling shattercone, shepherd's purse, sicklepod, sprangletop, sunflower, velvet leaf, volunteer corn, common and tall waterhemp, wheat, wild proso millet, witchgrass, wolly cupgrass; and common perennial weeds including Canada thistle, common milkweed, field bindweed, hemp

dogbane, red vine, rhizone johnson grass, tall fescue, trumpet creeper, swamp smartweed and wisteria mukly. Star Thistle, Poison Oak, and Ivy.

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Non-limiting examples of species that may be controlled include velvetleaf (Abutilon theophrasti), pigweed (Amaranthus spp.), buttonweed (Borreria spp.), oilseed rape, canola, indian mustard, etc. (Brassica spp.), commelina (Commelina spp.), filaree (Erodium spp.), sunflower (Helianthus spp.), morningglory (Ipomoea spp.), kochia (Kochia scoparia), mallow (Malva spp.), wild buckwheat, smartweed, etc. (Polygonum spp.), purslane (Portulaca spp.), russian thistle (Salsola spp.), sida (Sida spp.), wild mustard (Sinapis arvensis), cocklebur (Xanthium spp.), wild oat (Avena fatua), carpetgrass (Axonopus spp.), downy brome (Bromus tectorum), crabgrass (Digitaria spp.), barnyardgrass (Echinochloa crus-galli), goosegrass (Eleusine indica), annual ryegrass (Lolium multiflorum), rice (Oryza sativa), ottochloa (Ottochloa nodosa), bahiagrass (Paspalum notatum), canarygrass (Phalaris spp.), foxtail (Setaria spp.), wheat (Triticum aestivum), corn (Zea mays), mugwort (Artemisia spp.), milkweed (Asclepias spp.), canada thistle (Cirsium arvense), field bindweed (Convolvulus arvensis), kudzu (Pueraria spp.), brachiaria (Brachiaria spp.), bermudagrass (Cynodon dactylon), yellow nutsedge (Cyperus esculentus), purple nutsedge (C. rotundus), quackgrass (Elymus repens), lalang (Imperata cylindrica), perennial ryegrass (Lolium perenne), guineagrass (Panicum maximum), dallisgrass (Paspalum dilatatum), reed (Phragmites spp.), johnsongrass (Sorghum halepense), cattail (Typha spp.), horsetail (Equisetum spp.), bracken (Pteridium aquilinum), blackberry (Rubus spp.) and gorse (Ulex europaeus).

Crop and other cultivated species may also be contacted with a composition of the invention. Non-limiting examples of cultivated plants include, but are not limited to, species from the genera Fragaria, Lotus, Medicago, Onobrychis, Trifolium, Trigonella, Vigna, Citrus, Linum, Geranium, Manihot, Daucus, Arabidopsis, Brassica, Raphanus, Sinapis, Atropa, Capsicum, Datura, Hyoscyamus, Lycopersicon, Nicotiana, Helianthus, Lactuca, Bromus, Asparagus, Antirrhinum, Hemerocallis, Nemesia, Pelargonium, Panicum, Pennisetum, Ranunculus, Senecio, Salpiglossis, Cucumis, Bromelia, Glycine, Lolium, Zea, Triticum, Sorghum, Ipomoea, Passifora, Cyclamen, Malus, Prunus, Rosa, Rubus, Populus, Santalum, Allium, Lilium, Narcissus, Ananas, Arachis, Phaseolus, Pisum, Oryza, Hordeum, Gossypium.

A common class of plants exploited in agriculture are vegetable crops, including artichokes, kohlrabi, arugula, leeks, asparagus, lettuce (e.g., head, leaf, romaine), bok choy,

malanga, broccoli, melons (e.g., muskmelon, watermelon, crenshaw, honeydew, cantaloupe), brussels sprouts, cabbage, cardoni, carrots, napa, cauliflower, okra, onions, celery, parsley, chick peas, parsnips, chicory, Chinese cabbage, peppers, collards, potatoes, cucumber plants (marrows, cucumbers), pumpkins, cucurbits, radishes, dry bulb onions, rutabaga, eggplant, salsify, escarole, shallots, endive, garlic, spinach, green onions, squash, greens, beet (sugar beet and fodder beet), sweet potatoes, swiss-chard, horseradish, tomatoes, kale, turnips, and spices.

Other types of plants frequently finding commercial use include fruit and vine crops such as apples, apricots, cherries, nectarines, peaches, pears, plums, prunes, quince almonds, chestnuts, filberts, pecans, pistachios, walnuts, citrus, blueberries, boysenberries, cranberries, currants, loganberries, raspberries, strawberries, blackberries, grapes, avocados, bananas, kiwi, persimmons, pomegranate, pineapple, tropical fruits, pornes, melon, mango, papaya, and lychee.

Many of the most widely grown plants are field crop plants such as evening primrose, meadow foam, corn (field, sweet, popcorn), hops, jojoba, peanuts, rice, safflower, small grains (barley, oats, rye, wheat, etc.), sorghum, tobacco, kapok, leguminous plants (beans, lentils, peas, soybeans), oil plants (rape, mustard, poppy, olives, sunflowers, coconut, castor oil plants, cocoa beans, groundnuts), fiber plants (cotton, flax, hemp, jute), lauraceae (cinnamon, camphor), or plants such as coffee, sugarcane, tea, and natural rubber plants.

Another economically important group of plants are ornamental plants. Examples of commonly grown ornamental plants include alstroemeria (e.g., Alstoemeria brasiliensis), aster, azalea (e.g., Rhododendron sp.), begonias (e.g., Begonia sp.), bellflower, bouganvillea, cactus (e.g., Cactaceae schlumbergera truncata), camellia, carnation (e.g., Dianthus caryophyllus), chrysanthemums (e.g., Chrysanthemum sp.), clematis (e.g., Clematis sp.), cockscomb, columbine, cyclamen (e.g., Cyclamen sp.), daffodils (e.g., Narcissus sp.), false cypress, freesia (e.g., Freesia refracta), geraniums, gerberas, gladiolus (e.g., Gladiolus sp.), holly, hybiscus (e.g., Hibiscus rosasanensis), hydrangea (e.g., Macrophylla hydrangea), juniper, lilies (e.g., Lilium sp.), magnolia, miniroses, orchids (e.g., members of the family Orchidaceae), petunias (e.g., Petunia hybrida), poinsettia (e.g., Euphorbia pulcherima), primroses, rhododendron, roses (e.g., Rosa sp.), snapdragons (e.g., Antirrhinum sp.), shrubs, trees such as forest (broad-leaved trees and evergreens, such as conifers) and tulips (e.g., Tulipa sp.).

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### III. Antibiotics

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Another embodiment of the invention concerns methods and compositions for the contemporaneous administration of ectophosphatase inhibitors and antibiotics. Antibiotics are any chemical of natural or synthetic origin that kill or inhibit the growth of other types cells. Many clinically-useful antibiotics are produced by microorganisms. Antibiotics are typically low molecular-weight (non-protein) molecules produced as secondary metabolites, mainly by microorganisms that live in the soil. Most of these microorganisms form some type of a spore or other dormant cell, and there is thought to be some relationship (besides temporal) between antibiotic production and the processes of sporulation. Among molds, the notable antibiotic producers are Penicillium and Cephalosporium, which are the main source of the beta-lactam antibiotics (penicillin and its relatives). In the Bacteria, the Actinomycetes, notably Streptomyces species, produce a variety of types of antibiotics including the aminoglycosides (e.g. streptomycin), macrolides (e.g. erythromycin), and the tetracyclines. Endospore-forming Bacillus species produce polypeptide antibiotics such as polymyxin and bacitracin. The table below (Table 1) is a summary of the classes of antibiotics and their properties including their biological sources.

As set forth in Table 2, certain aspects of the invention concern compositions comprising an ectophosphatase inhibitor and an antibiotic of a class selected from the group consisting of: beta-lactams (penicillins and cephalosporins); semisynthetic penicillin; clavulanic Acid; monobactams; carboxypenems; aminoglycosides; glycopeptides; lincomycins; macrolides; polypeptides; chloramphenicol; polyenes; rifamycins; tetracyclines; and semisynthetic tetracycline. Any ectophosphatase inhibitor may be used in conjuntion with these classes of antibiotics. In certain embodiments of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulas I-XX.

Table 2. Classes of antibiotics and their properties

cephalosporms) Semisynthetic penicillin Clavulanic Acid Monobactams Carboxypenems	Penicillin G, Cephalothin Ampicillin, Amoxycillin Clavamox is clavulanic acid plus amoxycillin Aztreonam	Penicillium notatum and Cephalosporium species Streptomyces clavuligerus Chromobacter violaceum Streptomyces cattleya	Gram-positive bacteria Gram-positive and Gram- negative bacteria Gram-positive and Gram- negative bacteria Gram-positive and Gram- negative bacteria Gram-positive and Gram- negative bacteria	Gram-positive bacteria Inhibits steps in cell wall (peptidoglycan) synthesis and murein assembly Gram-positive and Gram- Inhibits steps in cell wall negative bacteria (peptidoglycan) synthesis and murein assembly Gram-positive and Gram- Suicide inhibitor of beta-lactamases negative bacteria (peptidoglycan) synthesis and murein assembly Gram-positive and Gram- Inhibits steps in cell wall negative bacteria (peptidoglycan) synthesis and murein assembly Gram-positive and Gram- Inhibits steps in cell wall negative bacteria (peptidoglycan) synthesis and murein assembly
Aminoglycosides Glycopeptides Lincomycins	Streptomycin Gentamicin Vancomycin Clindamycin	Streptomyces griseus Micromonospora species Streptomyces orientales Streptomyces lincolnensis	Gram-positive and Gram- negative bacteria Gram-positive and Gram- negative bacteria esp. Pseudomonas Gram-positive bacteria, esp. Staphylococcus aureus Gram-positive and Gram- negative bacteria esp.	Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria esp. Pseudomonas Gram-positive bacteria, Inhibits steps in murein esp. Staphylococcus (peptidoglycan) biosynthesis and assembly Gram-positive and Gram- Inhibits translation (protein negative bacteria esp. synthesis) anaerobic Bacteroides

Chemical class	Examples	Biological source	Spectrum (effective	Mode of action
Macrolides	Erythromycin	Streptomyces erythreus	against) Gram-positive bacteria, Gram-negative bacteria not enterics,	Inhibits translation (protein synthesis)
Polypeptides	Polymyxin	Bacillus polymyxa	Neisseria, Legionella, Mycoplasma Gram-negative bacteria	Damages cytoplasmic membranes
	Bacitracin	Bacillus subtilis	Gram-positive bacteria	Inhibits steps in murein (peptidoglycan) biosynthesis and assembly
Polyenes	Amphotericin	Streptomyces nodosus	Fungi	Inactivate membranes containing sterols
	Nystatin	Streptomyces noursei	Fungi (Candida)	Inactivate membranes containing
Rifamycins	Rifampicin	Streptomyces mediterranei	Gram-positive and Gram- negative bacteria, Mycobacterium	Gram-positive and Gram- Inhibits transcription (eubacterial negative bacteria, RNA polymerase)
Tetracyclines	Tetracycline	Streptomycesspecies	tuberculosis Gram-positive and Gram-negative bacteria,	tuberculosis Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria,
Semisynthetic tetracycline	Doxycycline		Rickettsias Gram-positive and Gram- negative bacteria, Rickettsias Ehrlichia,	Rickettsias Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria, Rickettsias Ehrlichia,
Chloramphenicol	Chloramphenicol	Streptomyces venezuelae	Borellia Gram-positive and Gram- negative bacteria	Borellia Gram-positive and Gram- Inhibits translation (protein negative bacteria synthesis)

# A. Antimicrobial Agents Used in the Treatment of Infectious Disease

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An important property of a clinically-useful antimicrobial agent, especially from the patient's point of view, is its selective toxicity, *i.e.*, that the agent acts in some way that inhibits or kills bacterial pathogens but has little or no toxic effect on the animal taking the drug. This implies that the biochemical processes in the bacteria are in some way different from those in the animal cells, and that the advantage of this difference can be taken in chemotherapy. Antibiotics may have a cidal (killing) effect or a static (inhibitory) effect on a range of microbes. The range of bacteria or other microorganisms that are affected by a certain antibiotic are is expressed as its spectrum of action. Antibiotics effective against prokaryotes which kill or inhibit a wide range of Gram-positive and Gram-negative bacteria are said to be broad spectrum. If effective against a single organism or disease, they are referred to as limited spectrum. In accordance with the invention, certain adverse effects of antibiotics may be minimized by use of en ectophosphatase inhibitor in combination with the antibiotic, thereby allowing use of lower doses of antibiotics.

# B. Kinds of Antimicrobial Agents and their Primary Modes of Action

In one embodiment of the invention, ectophosphatase inhibitors are used in conjunction with cell wall synthesis inhibitors. Cell wall synthesis inhibitors generally inhibit some step in the synthesis of bacterial peptidoglycan. Generally they exert their selective toxicity against eubacteria because human cells lack cell walls.

Beta lactam antibiotics contain a 4-membered beta lactam ring. They are the products of two groups of fungi, Penicillium and Cephalosporium molds, and are correspondingly represented by the penicillins and cephalosporins. The beta lactam antibiotics inhibit the last step in peptidoglycan synthesis, the final cross-linking between peptide side chains, mediated by bacterial carboxypeptidase and transpeptidase enzymes. Beta lactam antibiotics are normally bactericidal and require that cells be actively growing in order to exert their toxicity.

Natural penicillins, such as Penicillin G or Penicillin V, are produced by fermentation of Penicillium chrysogenum. They are effective against streptococcus, gonococcus and staphylococcus, except where resistance has developed. They are considered narrow spectrum since they are not effective against Gram-negative rods.

Semisynthetic penicillins date to 1959. Mold produces a main part of the penicillin molecule (6-aminopenicillanic acid) which can be modified chemically by the addition of side chains. Many of these compounds have been developed to have distinct benefits or advantages over penicillin G, such as increased spectrum of activity (effectiveness against Gram-negative rods), resistance to penicillinase, effectiveness when administered orally, etc. Amoxycillin and Ampicillin have broadened spectra against Gram-negatives and are effective orally; Methicillin is penicillinase-resistant.

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Clavulanic acid is a chemical sometimes added to a semisynthetic penicillin preparation. Thus, amoxycillin plus clavulanate is clavamox or augmentin. The clavulanate is not an antimicrobial agent. It inhibits beta lactamase enzymes and has given extended life to penicillinase-sensitive beta lactams.

Although nontoxic, penicillins occasionally cause death when administered to persons who are allergic to them. In the U.S. there are 300 - 500 deaths annually due to penicillin allergy. In allergic individuals the beta lactam molecule attaches to a serum protein which initiates an IgE-mediated inflammatory response.

Cephalolsporins are beta lactam antibiotics with a similar mode of action to penicillins that are produced by species of Cephalosporium. The have a low toxicity and a somewhat broader spectrum than natural penicillins. They are often used as penicillin substitutes, against Gram-negative bacteria, and in surgical prophylaxis. They are subject to degradation by some bacterial beta-lactamases, but they tend to be resistant to beta-lactamases from *S. aureus*.

Bacitracin is a polypeptide antibiotic produced by Bacillus species. It prevents cell wall growth by inhibiting the release of the muropeptide subunits of peptidoglycan from the lipid carrier molecule that carries the subunit to the outside of the membrane Teichoic acid synthesis, which requires the same carrier, is also inhibited. Bacitracin has a high toxicity which precludes its systemic use. It is present in many topical antibiotic preparations, and since it is not absorbed by the gut, it is given to "sterilize" the bowel prior to surgery.

Cell membrane inhibitors disorganize the structure or inhibit the function of bacterial membranes. The integrity of the cytoplasmic and outer membranes is vital to bacteria, and compounds that disorganize the membranes rapidly kill the cells. However, due to the similarities in phospholipids in eubacterial and eukaryotic membranes, this action is rarely

specific enough to permit these compounds to be used systemically. The only antibacterial antibiotic of clinical importance that acts by this mechanism is Polymyxin, produced by *Bacillus polymyxis*. Polymyxin is effective mainly against Gram-negative bacteria and is usually limited to topical usage. Polymyxins bind to membrane phospholipids and thereby interfere with membrane function. Polymyxin is occasionally given for urinary tract infections caused by *Pseudomonas* that are gentamicin, carbenicillin and tobramycin resistant. The balance between effectiveness and damage to the kidney and other organs is dangerously close, and the drug should only be given under close supervision in the hospital.

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In accordance with the invention, ectophosphatase inhibitors may also be contemporaneously administered and formulated in compositions with antibiotics that are protein synthesis inhibitors. Many therapeutically useful antibiotics inhibit some step in the complex process of translation. The attack is at one of the events occurring on the ribosome, rather than the stage of amino acid activation or attachment to a particular tRNA. Most have an affinity or specificity for 70S (as opposed to 80S) ribosomes, and they achieve their selective toxicity in this manner. The most important antibiotics with this mode of action are the tetracyclines, chloramphenicol, the macrolides (e.g. erythromycin) and the aminoglycosides (e.g. streptomycin).

The aminoglycosides are products of *Streptomyces* species and are represented by streptomycin, kanamycin, tobramycin and gentamicin. These antibiotics exert their activity by binding to bacterial ribosomes and preventing the initiation of protein synthesis. Aminoglycosides have been used against a wide variety of bacterial infections caused by Grampositive and Gram-negative bacteria. Streptomycin has been used extensively as a primary drug in the treatment of tuberculosis. Gentamicin is active against many strains of Gram-positive and Gram-negative bacteria, including some strains of *Pseudomonas aeruginosa*. Kanamycin (a complex of three antibiotics, A, B and C) is active at low concentrations against many Grampositive bacteria, including penicillin-resistant staphylococci. Gentamicin and Tobramycin are mainstays for treatment of *Pseudomonas* infections. An unfortunate side effect of aminoglycosides has tended to restrict their usage: prolonged use is known to impair kidney function and cause damage to the auditory nerves leading to deafness.

The tetracyclines consist of eight related antibiotics which are all natural products of Streptomyces, although some can now be produced semisynthetically. Tetracycline,

chlortetracycline and doxycycline are the best known. The tetracyclines are broad-spectrum antibiotics with a wide range of activity against both Gram-positive and Gram-negative bacteria. The tetracyclines act by blocking the binding of aminoacyl tRNA to the A site on the ribosome. Tetracyclines inhibit protein synthesis on isolated 70S or 80S (eukaryotic) ribosomes, and in both cases, their effect is on the small ribosomal subunit. However, most bacteria possess an active transport system for tetracycline that will allow intracellular accumulation of the antibiotic at concentrations 50 times as great as that in the medium. This greatly enhances its antibacterial effectiveness and accounts for its specificity of action, since an effective concentration cannot be accumulated in animal cells. Thus a blood level of tetracycline which is harmless

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The tetracyclines have a remarkably low toxicity and minimal side effects when taken by animals. The combination of their broad spectrum and low toxicity has led to their overuse and misuse by the medical community and the wide-spread development of resistance has reduced their effectiveness. Nonetheless, tetracyclines still have some important uses, such as in the treatment of Lyme disease.

Chloramphenicol has a broad spectrum of activity but it exerts a bacteriostatic effect. It is effective against intracellular parasites such as the rickettsiae. Unfortunately, aplastic anemia, which is dose related develops in a small proportion (1/50,000) of patients. Chloramphenicol was originally discovered and purified from the fermentation of a *Streptomyces*, but currently it is produced entirely by chemical synthesis. Chloramphenicol inhibits the bacterial enzyme peptidyl transferase thereby preventing the growth of the polypeptide chain during protein synthesis.

Chloramphenicol is entirely selective for 70S ribosomes and does not affect 80S ribosomes. Its unfortunate toxicity towards the small proportion of patients who receive it is in no way related to its effect on bacterial protein synthesis. However, since mitochondria probably originated from prokaryotic cells and have 70S ribosomes, they are subject to inhibition by some of the protein synthesis inhibitors including chloroamphenicol. This likely explains the toxicity of chloramphenicol. The eukaryotic cells most likely to be inhibited by chloramphenicol are those undergoing rapid multiplication, thereby rapidly synthesizing mitochondria. Such cells include the blood forming cells of the bone marrow, the inhibition of which could present as aplastic anemia. Chloramphenicol was once a highly prescribed antibiotic and a number of

deaths from anemia occurred before its use was curtailed. Now it is seldom used in human medicine except in life-threatening situations (e.g. typhoid fever).

The Macrolides are a family of antibiotics whose structures contain large lactone rings linked through glycoside bonds with amino sugars. The most important members of the group are erythromycin and oleandomycin. Erythromycin is active against most Gram-positive bacteria, *Neisseria*, *Legionella* and *Haemophilus*, but not against the Enterobacteriaceae. Macrolides inhibit bacterial protein synthesis by binding to the 50S ribosomal subunit. Binding inhibits elongation of the protein by peptidyl transferase or prevents translocation of the ribosome or both. Macrolides are bacteriostatic for most bacteria but are cidal for a few Grampositive bacteria.

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In further embodiments of the invention, ectophosphatase inhibitors may be contemporaneously administered and formulated in compositions with antibiotics that affect nucleic acids, including chemotherapeutic agents that affect the synthesis of DNA or RNA, or can bind to DNA or RNA so that their messages cannot be read. In either case, this can block the growth of cells. The majority of these drugs are unselective, however, and affect animal cells and bacterial cells alike and therefore have no therapeutic application. Two nucleic acid synthesis inhibitors which have selective activity against prokaryotes and some medical utility are nalidixic acid and rifamycins.

Nalidixic acid is a synthetic chemotherapeutic agent which has activity mainly against Gram-negative bacteria. Nalidixic acid belongs to a group of compounds called quinolones. Nalidixic acid is a bactericidal agent that binds to the DNA gyrase enzyme (topoisomerase) which is essential for DNA replication and allows supercoils to be relaxed and reformed. Binding of the drug inhibits DNA gyrase activity.

Some quinolones penetrate macrophages and neutrophils better than most antibiotics and are thus useful in treatment of infections caused by intracellular parasites. However, the main use of nalidixic acid is in treatment of lower urinary tract infections (UTI). The compound is unusual in that it is effective against several types of Gram-negative bacteria such as *E. coli*, *Enterobacter aerogenes*, *K. pneumoniae* and *Proteus* species which are common causes of UTI. It is not usually effective against *Pseudomonas aeruginosa*, and Gram-positive bacteria are resistant.

The rifamycins are also the products of *Streptomyces*. Rifampicin is a semisynthetic derivative of rifamycin that is active against Gram-positive bacteria (including *Mycobacterium tuberculosis*) and some Gram-negative bacteria. Rifampicin acts quite specifically on eubacterial RNA polymerase and is inactive towards RNA polymerase from animal cells or towards DNA polymerase. The antibiotic binds to the beta subunit of the polymerase and apparently blocks the entry of the first nucleotide which is necessary to activate the polymerase, thereby blocking mRNA synthesis. It has been found to have greater bactericidal effect against *M. tuberculosis* than other anti-tuberculosis drugs, and it has largely replaced isoniazid as one of the front-line drugs used to treat the disease, especially when isoniazid resistance is indicated. It is effective orally and penetrates well into the cerebrospinal fluid and is therefore useful for treatment of tuberculosis meningitis and meningitis caused by *Neisseria meningitidis*.

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In accordance with the invention, ectophosphatase inhibitors may also be administered with competitive inhibitors, including mostly all synthetic chemotherapeutic agents. Most are "growth factor analogs" which are structurally similar to a bacterial growth factor but which do not fulfill its metabolic function in the cell. Some are bacteriostatic and some are bactericidal.

Sulfonamides were originally introduced as chemotherapeutic agents, one of which, prontosil, had the effect of curing mice with infections caused by beta-hemolytic streptococci. Chemical modifications of the compound sulfanilamide gave compounds with even higher and broader antibacterial activity. The resulting sulfonamides have broadly similar antibacterial activity, but differ widely in their pharmacological actions. Bacteria which are almost always sensitive to the sulfonamides include *Streptococcus pneumoniae*, beta-hemolytic streptococci and *E. coli*. The sulfonamides have been extremely useful in the treatment of uncomplicated UTI caused by *E. coli*, and in the treatment of meningococcal meningitis, because they cross the blood-brain barrier.

The sulfonamides (e.g. Gantrisin) and Trimethoprim are inhibitors of the bacterial enzymes required for the synthesis of tetrahydofolic acid (THF), the vitamin form of folic acid essential for 1-carbon transfer reactions. Sulfonamides are structurally similar to para aminobenzoic acid (PABA), the substrate for the first enzyme in the THF pathway, and they competitively inhibit that step. Trimethoprim is structurally similar to dihydrofolate (DHF) and competitively inhibits the second step in THF synthesis mediated by the DHF reductase. Animal cells do not synthesize their own folic acid but obtain it in a preformed fashion as a vitamin.

Since animals do not make folic acid, they are not affected by these drugs, which achieve their selective toxicity for bacteria on this basis.

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Three additional synthetic chemotherapeutic agents have been used in the treatment of tuberculosis: isoniazid (INH), paraaminosalicylic acid (PAS), and ethambutol. The usual strategy in the treatment of tuberculosis has been to administer a single antibiotic (historically streptomycin, but now, most commonly, rifampicin is given) in conjunction with INH and ethambutol. Since the tubercle bacillus rapidly develops resistance to the antibiotic, ethambutol and INH are given to prevent outgrowth of a resistant strain. It must also be pointed out that the tubercle bacillus rapidly develops resistance to ethambutol and INH if either drug is used alone. Ethambutol inhibits incorporation of mycolic acids into the mycobacterial cell wall. Isoniazid has been reported to inhibit mycolic acid synthesis in mycobacteria and since it is an analog of pyridoxine (Vitamin B6) it may inhibit pyridoxine catalyzed reactions as well. Isoniazid is activated by a mycobacterial peroxidase enzyme and destroys several targets in the cell. PAS is an anti-folate. PAS was once a primary anti-tuberculosis drug, but now it is a secondary agent, having been largely replaced by ethambutol.

# C. Inhibition of Drug Resistance in Microorganisms to Treat Infection

The present invention also relates to methods for inhibiting or ameliorating infection in animals and humans caused by microorganisms. For example, treatment of bacterial and fungal infections may be augmented or effected using inhibitory mechanisms against an ectophosphatase to modify the ATP gradient across biological membranes. The invention is useful in the inhibition or amelioration of a wide range of infections including, but not limited to, gram negative bacterial infection including gram-negative sepsis, gram-negative endotoxin-related hypotension and shock, rabies, cholera, tetanus, lymes disease, tuberculosis, Candida albicans, Chlamydia, etc.

The inhibition or amelioration of the infections may involve the administration of an antimicrobial agent (such as an antibiotic or an antifungal agent) with the concurrent administration of the aforementioned compositions. Additionally, inhibitors of ectophosphatases or ABC transporters may be administered via a physiologically acceptable carrier as described above. In one embodiment of the invention, the inhibitor of ectophosphatase is selected from the compounds represented by formulas I-XX.

Certain aspects of the current invention thus concern the inhibition of cell growth by contacting a cell with an inhibitor of an ectophosphatase with contemporaneous administration of other agents capable of inhibiting cell growth or killing the cell. In this manner, therapeutic benefit may be obtained for the treatment of bacterial infections. Examples of types of bacteria that could be inhibited and bacterial infections that could potentially be treated or prevented with the invention, include, but are not limited to, the 83 or more distinct serotypes of pneumococci. streptococci such as S. pyogenes, S. agalactiae, S. equi, S. canis, S. bovis, S. equinus, S. anginosus, S. sanguis, S. salivarius, S. mitis, S. mutans, other viridans streptococci, peptostreptococci, other related species of streptococci, enterococci such as Enterococcus faecalis, Enterococcus faecium, Staphylococci, such as Staphylococcus epidermidis, Staphylococcus aureus, particularly in the nasopharynx, Hemophilus influenzae, pseudomonas species such as Pseudomonas aeruginosa, Pseudomonas pseudomallei, Pseudomonas mallei, brucellas such as Brucella melitensis, Brucella suis, Brucella abortus, Bordetella pertussis, Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis, Corynebacterium diphtheriae, Corynebacterium ulcerans, Corynebacterium pseudotuberculosis, Corynebacterium pseudodiphtheriticum, Corynebacterium urealyticum, Corynebacterium Corynebacterium equi, etc. Listeria monocytogenes, Nocordia asteroides, Bacteroides species, Actinomycetes species, Treponema pallidum, Leptospirosa species and related organisms. The invention may also find use, for example, against gram negative bacteria such as Klebsiella pneumoniae, Escherichia coli, Proteus, Serratia species, Acinetobacter, Yersinia pestis, Francisella tularensis, Enterobacter species, Bacteriodes and Legionella species and the like.

### IV. Chemotherapeutics

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A variety of chemotherapeutic agents are suitable for use with the invention and are known to those of skill in the art. In accordance with the invention, therapeutic benefit may be obtained by contemporaneous administration of one or more ectophosphatase inhibitor and one or more such chemotherapeutic agent(s). Co-administration of chemotherapeutics with ectophosphatase inhibitors in accordance with the invention may be used to increase therapeutic effectiveness of a chemotherapeutic and may allow use of lowered doses. Such techniques may further allow treatment of chemotherapy-resistant tumor cells.

As will be understood by those of ordinary skill in the art, the appropriate doses of chemotherapeutic agents will be generally around those already employed in clinical therapies wherein the chemotherapeutics are administered alone or in combination with other chemotherapeutics. By way of example only, agents such as cisplatin, and other DNA alkylating agents may be used with an ectophosphatase inhibitor. Cisplatin has been widely used to treat cancer, with efficacious doses used in clinical applications of 20 mg/m² for 5 days every three weeks for a total of three courses. Cisplatin is not absorbed orally and must therefore be delivered via injection intravenously, subcutaneously, intratumorally or intraperitoneally.

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Further agents for use with ectophosphatase inhibitors in accordance with the invention include, for example, compounds that interfere with DNA replication, mitosis and chromosomal segregation. Such chemotherapeutic compounds include adriamycin, also known as doxorubicin, etoposide, verapamil, podophyllotoxin, and the like. Widely used in a clinical setting for the treatment of neoplasms, these compounds are administered through bolus injections intravenously at doses ranging from 25-75 mg/m<sup>2</sup> at 21 day intervals for adriamycin, to 35-50 mg/m<sup>2</sup> for etoposide intravenously or double the intravenous dose orally.

Agents that disrupt the synthesis and fidelity of polynucleotide precursors also may be used with ectophosphatase inhibitors. Particularly useful are agents that have undergone extensive testing and are readily available. As such, agents such as 5-fluorouracil (5-FU) are preferentially used by neoplastic tissue, making this agent particularly useful for targeting to neoplastic cells. Although quite toxic, 5-FU is applicable in a wide range of carriers, including topical, with intravenous administration in doses ranging from 3 to 15 mg/kg/day being commonly used.

Exemplary and non-limiting chemotherapeutic agents for use in combination with an ectophosphatase inhibitor in accordance with the invention are listed in Table 3. Accordingly, compositions comprising these agents and one or more ectophosphatase inhibitor(s) form one part of the invention, as do methods for the administration thereof. Each of the agents listed below are exemplary and by no means limiting. In this regard, the skilled artisan is directed to "Remington's Pharmaceutical Sciences" 15th Edition, chapter 33, in particular pages 624-652. Some variation in dosage will necessarily occur depending on the condition of the subject being treated. The person responsible for administration will, in any event, determine the appropriate dose for the individual subject. Moreover, for human administration, preparations should meet

sterility, pyrogenicity, general safety and purity standards as required by FDA Office of Biologics standards.

Specifically contemplated by the inventors are compositions comprising and ectophosphatase inhibitor and a chemotherapeutic agent set forth in Table 3., as well as methods comprising the use thereof

Table 3: Chemotherapeutic Agents Useful In Neoplastic Disease

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CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
		Mechlorethamine (HN <sub>2</sub> )	Hodgkin's disease, non-Hodgkin's lymphomas
	Nitrogen Mustards	Cyclophosphamide Ifosfamide	Acute and chronic lymphocytic leukemias, Hodgkin's disease, non-Hodgkin's lymphomas, multiple myeloma, neuroblastoma, breast, ovary, lung, Wilms' tumor, cervix, testis, soft-tissue sarcomas
		Melphalan (L-sarcolysin)	Multiple myeloma, breast, ovary
		Chlorambucil	Chronic lymphocytic leukemia, primary macroglobulinemia, Hodgkin's disease, non-Hodgkin's lymphomas
Alkylating Agents	Ethylenimenes and Methylmelamin es	Hexamethylmelamine	Ovary
		Thiotepa	Bladder, breast, ovary
	Alkyl Sulfonates	Busulfan	Chronic granulocytic leukemia
		Carmustine (BCNU)	Hodgkin's disease, non-Hodgkin's lymphomas, primary brain tumors, multiple myeloma, malignant melanoma
	Nitrosoureas	Lomustine (CCNU)	Hodgkin's disease, non-Hodgkin's lymphomas, primary brain tumors, small-cell lung

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
		Semustine (methyl-CCNU)  Streptozocin	Primary brain tumors, stomach, colon Malignant pancreatic
		(streptozotocin)	insulinoma, malignant carcinoid
	Triazines	Dacarbazine (DTIC; dimethyltriazenoimidaz olecarboxamide)	Malignant melanoma, Hodgkin's disease, soft-tissue sarcomas
Antimetabolite s	Folic Acid Analogs	Methotrexate (amethopterin)	Acute lymphocytic leukemia, choriocarcinoma, mycosis fungoides, breast, head and neck, lung, osteogenic sarcoma
	Pyrimidine Analogs	Fluouracil (5-fluorouracil; 5-FU) Floxuridine (fluorode-oxyuridine; FUdR)	Breast, colon, stomach, pancreas, ovary, head and neck, urinary bladder, premalignant skin lesions (topical)
Antimetabolite s, continued		Cytarabine (cytosine arabinoside)	Acute granulocytic and acute lymphocytic leukemias
, , , ,	·	Mercaptopurine (6-mercaptopurine; 6-MP)	Acute lymphocytic, acute granulocytic and chronic granulocytic leukemias
	Purine Analogs and Related Inhibitors	Thioguanine (6-thioguanine; TG)	Acute granulocytic, acute lymphocytic and chronic granulocytic leukemias
		Pentostatin (2-deoxycoformycin)	Hairy cell leukemia, mycosis fungoides, chronic lymphocytic leukemia
		Vinblastine (VLB)	Hodgkin's disease, non-Hodgkin's lymphomas, breast, testis
	Vinca Alkaloids	Vincristine	Acute lymphocytic leukemia, neuroblastoma, Wilms' tumor, rhabdomyosarcoma, Hodgkin's disease, non-Hodgkin's lymphomas, small-cell lung
·	Epipodophyllot oxins	Etoposide Tertiposide	Testis, small-cell lung and other lung, breast, Hodgkin's disease, non-Hodgkin's lymphomas, acute granulocytic leukemia, Kaposi's sarcoma

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CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES	DISEASE
37 . 1	1102111	(OTHER NAMES)	
Natural Products		Dactinomycin (actinomycin D)	Choriocarcinoma, Wilms' tumor, rhabdomyosarcoma, testis, Kaposi's sarcoma
		Daunorubicin (daunomycin; rubidomycin)	Acute granulocytic and acute lymphocytic leukemias
	Antibiotics	Doxorubicin	Soft-tissue, osteogenic and other sarcomas; Hodgkin's disease, non-Hodgkin's lymphomas, acute leukemias, breast, genitourinary, thyroid, lung, stomach, neuroblastoma
		Bleomycin	Testis, head and neck, skin, esophagus, lung and genitourinary tract; Hodgkin's disease, non-Hodgkin's lymphomas
	Antibiotics, continued	Plicamycin (mithramycin)	Testis, malignant hypercalcemia
Natural Products, continued		Mitomycin (mitomycin C)	Stomach, cervix, colon, breast, pancreas, bladder, head and neck
	Enzymes	L-Asparaginase	Acute lymphocytic leukemia
	Biological Response Modifiers	Interferon alfa	Hairy cell leukemia., Kaposi's sarcoma, melanoma, carcinoid, renal cell, ovary, bladder, non-Hodgkin's lymphomas, mycosis fungoides, multiple myeloma, chronic granulocytic leukemia
	Platinum Coordination Complexes	Cisplatin (cis-DDP) Carboplatin	Testis, ovary, bladder, head and neck, lung, thyroid, cervix, endometrium, neuroblastoma, osteogenic sarcoma
	Anthracenedion e	Mitoxantrone	Acute granulocytic leukemia, breast
Miscellaneous Agents	Substituted Urea	Hydroxyurea	Chronic granulocytic leukemia, polycythemia vera, essental thrombocytosis, malignant melanoma
	3 6 11 1	Description:	
	Methyl Hydrazine Derivative Adrenocortical	Procarbazine (N-methylhydrazine, MIH)	Hodgkin's disease

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
	Suppressant	Aminoglutethimide	Breast
·	Adrenocorticost eroids	Prednisone (several other equivalent preparations available)	Acute and chronic lymphocytic leukemias, non-Hodgkin's lymphomas, Hodgkin's disease, breast
Hormones and Antagonists	Progestins	Hydroxyprogesterone caproate Medroxyprogesterone acetate Megestrol acetate	Endometrium, breast
	Estrogens	Diethylstilbestrol Ethinyl estradiol (other preparations available)	Breast, prostate
' '	Antiestrogen	Tamoxifen	Breast
	Androgens	Testosterone propionate Fluoxymesterone (other preparations available)	Breast
	Antiandrogen	Flutamide	Prostate
	Gonadotropin-re leasing hormone analog	Leuprolide	Prostate

Administration of compositions provided by the invention may be local or systemic, using a suitable physiological carrier. Other compounds which aid in the uptake or stability of these agents, or which have beneficial activity, may also be included in the formulations of the invention. Certain embodiments of the invention thus provide pharmaceutical composition comprising an ectophosphatase inhibitor. The composition may further comprise, in certain embodiments, a cytotoxic agent, including a chemotherapeutic agent set forth herein. For example, by contacting a tumor cell either alone with the ectophosphatase inhibitor or in combination with one or more chemotherapeutic agents, therapeutic benefit may be obtained. Particular benefit may be obtained where a tumor cell is resistant to at least one chemotherapeutic agent. This may enhance the overall anti-tumor activity achieved by therapy, and/or may be used to prevent or combat multi-drug tumor resistance.

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# V. Assays and Methods for Screening Active Compounds

In one embodiment of the invention, assays are provided for screening compositions comprising combinations of ectophosphatase inhibitors and a selected cytotoxic agent, for example, a herbicide, fungicide, antibiotic, insecticide or chemotherapeutic agent. A number of assay formats are known to those of skill in the art and may be used in this regard. These include assays of biological activities as well as assays of chemical properties. The results of these assays provide important inferences as to the properties of compounds as well as their potential applications in treating human or other mammalian patients for infection and hyperproliferative diseases as well as in various agricultural applications. Assays deemed to be of particular utility in this regard include *in vivo* and *in vitro* screens of activity and immunoassays.

### (i) Screening for Herbicidal Activity

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One aspect of the current invention provides herbicidal compositions having improved herbicidal activity. In accordance with the invention, assays for herbicidal activity may be used to asses the relative efficacy of combinations of ectophosphatase inhibitors and herbicidal agents. Numerous assays formats for analyzing herbicidal activity are known to those of skill in the art and may be used in this regard. A straightforward means for testing activity comprises the serial application of test compositions to plants and/or plant parts, for example, by leaf painting. Plants are otherwise grown under comparable conditions, followed by serial applications of test and control compositions are applied. Control treatments may be used comprising herbicide compositions lacking ectophosphatase inhibitors, thereby identifying the presence of absence of activity as a syngerist. Herbicidal activity is then measured by analysis of the effect of the composition on plant viability.

Commercial herbicide formulations are well known to those of skill in the art and will generally be used in assays. However, it will typically be preferred to dilute herbicidal compositions and/or administer reduced amounts of the compositions such that the relative herbicidal activity of a composition may be quantified. Reductions in the lethality of herbicidal compositions allows the identification of effectiveness between herbicidal compositions. Thus, in particular embodiments of the invention, test and control compositions are administered in rates and/or amounts of from about 90% to about 5% of the commercial application rate for a given herbicide.

Following application of herbicidal test compositions, herbicidal activity and effectiveness is measured. Through comparisons with applications of control compositions, the effectiveness of the compositions may be determined.

Tests may be carried out on whole plants as well as plant parts or cell. For example, plant cells in tissue culture may be screened for herbicidal activity. The preparation of plant tissue cultures is well known to those of skill in the art.

### (ii) In vivo Assays

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The present invention encompasses the use of various animal models. Here, the identity seen between human and mouse provides an excellent opportunity to examine the function of a potential therapeutic agent, for example, an antiinfective or chemotherapeutic administered in combination with an ectophosphatase inhibitor. In the case of chemotherapeutics, one can utilize cancer models in mice that will be highly predictive of cancers in humans and other mammals. These models may employ the orthotopic or systemic administration of tumor cells to mimic primary and/or metastatic cancers. Alternatively, one may induce cancers in animals by providing agents known to be responsible for certain events associated with malignant transformation and/or tumor progression. Similarly, numerous animal models are available for analysis of antinfectives, including insecticides, antibiotics and antifungal agents. In this manner, all that is commonly required is infection of the relevant animal with a target infective agent and analysis of therapeutic benefit relative to prior antiinfective compositions.

Treatment of animals with test compositions will involve the administration of the composition, in an appropriate form, to the animal. Administration will be by any route the could be utilized for clinical or non-clinical purposes, including but not limited to oral, nasal, buccal, rectal, vaginal or topical. Alternatively, administration may be by intratracheal instillation, bronchial instillation, intradermal, subcutaneous, intramuscular, intraperitoneal or intravenous injection. Specifically contemplated are systemic intravenous injection, regional administration via blood or lymph supply and intratumoral injection.

Determining the effectiveness of a compound *in vivo* may involve a variety of different criteria. Such criteria include, but are not limited to, survival, reduction of tumor burden or mass, arrest or slowing of tumor progression, elimination of tumors, inhibition or prevention of metastasis, increased activity level, improvement in immune effector function and improved

food intake. Through comparisons of active agents alone and active agents in combination with ectophosphatase inhibitors, synergistic combinations may be readily confirmed.

# (iii) Confirmatory In vivo and Clinical Studies

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It will be understood by those of skill in the art that therapeutic compositions should generally be tested in an *in vivo* setting prior to use in a human subject. Such pre-clinical testing in animals is routine in the art. To conduct such confirmatory tests, all that is required is an art-accepted animal model of the disease in question, such as an animal bearing a solid tumor or infective agent. Any animal may be used in such a context, such as, *e.g.*, a mouse, rat, guinea pig, hamster, rabbit, dog, chimpanzee, or such like. Studies using small animals such as mice are widely accepted as being predictive of clinical efficacy in humans, and such animal models may thus find use in the context of the present invention as they are readily available and relatively inexpensive, at least in comparison to other experimental animals.

The manner of conducting an experimental animal test will be straightforward to those of ordinary skill in the art. All that is required to conduct such a test is to establish equivalent treatment groups, and to administer the test compounds to one group while various control studies are conducted in parallel on the equivalent animals in the remaining group or groups. One monitors the animals during the course of the study and, ultimately, one sacrifices the animals to analyze the effects of the treatment.

In the context of the treatment of tumors, it is contemplated that effective amounts of chemotherapeutic compositions will be those that generally result in at least about 10% of the cells within a tumor exhibiting cell death or apoptosis. Preferably, at least about 20%, about 30%, about 40%, or about 50%, of the cells at a particular tumor site will be killed. Most preferably, 100% of the cells at a tumor site will be killed.

The extent of cell death in a tumor is assessed relative to the maintenance of healthy tissues in all of the areas of the body. It will be preferable to use doses of chemotherapeutic compositions capable of inducing at least about 60%, about 70%, about 80%, about 85%, about 90%, about 95% up to and including 100% tumor necrosis, so long as the doses used do not result in significant side effects or other untoward reactions in the animal. All such determinations can be readily made and properly assessed by those of ordinary skill in the art. For example, attendants, scientists and physicians can utilize such data from experimental

animals in the optimization of appropriate doses for human treatment. In subjects with advanced disease, a certain degree of side effects can be tolerated. However, patients in the early stages of disease can be treated with more moderate doses in order to obtain a significant therapeutic effect in the absence of side effects. The effects observed in such experimental animal studies should preferably be statistically significant over the control levels and should be reproducible from study to study.

Those of ordinary skill in the art will further understand that combinations and doses of the compositions provided by the invention that result in tumor-specific necrosis towards the lower end of the effective ranges may nonetheless still be useful in connection with the present invention. For example, in embodiments where a continued application of the active agents is contemplated, an initial dose that results in only about 10% necrosis will nonetheless be useful, particularly as it is often observed that this initial reduction "primes" the tumor to further destructive assault upon subsequent re-application of the therapy. In any event, even if upwards of about 40% or so tumor inhibition is not ultimately achieved, it will be understood that any induction of thrombosis and necrosis is nonetheless useful in that it represents an advance over the state of the patients prior to treatments. Still further, it is contemplated that a dose which prevents or decreases the likelihood of either metastasis or *de novo* carcinogenesis would also be of therapeutic benefit to a patient receiving the treatment.

As discussed above in connection with the *in vitro* test system, it will naturally be understood that combinations of agents intended for use together should be tested and optimized together. The compositions of the invention can be straightforwardly analyzed in the combinations set forth herein. Analysis of the combined effects of such agents would be determined and assessed according to the guidelines set forth above.

### (iv) In vitro Assays

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In one embodiment of the invention, screening of a composition provided by the invention is conducted *in vitro* to identify those compounds capable of synergizing therapeutic agents, including cytotoxic agents such as antibiotics, fungicides and chemotherapeutic agents, as well as other types of biologically-active agents. In the case of killing of tumor cells, cytotoxicity is generally exhibited by necrosis or apoptosis. Necrosis is a relatively common pathway triggered by external signals. During this process, the integrity of the cellular membrane and cellular compartments is lost. On the other hand, apoptosis, or programmed cell

death, is a highly organized process of morphological events that is synchronized by the activation and deactivation of specific genes (Thompson et al., 1992; Wyllie, 1985). In the case of pesticides, the selective cytotoxic action against the infective agent, including an insect, bacterial or fungal pathogen, is typically analyzed.

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An efficacious means for *in vitro* assaying of cytoxicity comprises the systematic exposure of a panel of cells to selected compositions. For example, in the case of cancer, many tumor cell lines are available for implementing assays, including human ovarian, leukemic, breast, prostate, melanoma and renal cancer cells.

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In vitro determinations of the efficacy of a compound in killing tumor cells may be achieved, for example, by assays of the expression and induction of various genes involved in cell-cycle arrest (p21, p27; inhibitors of cyclin dependent kinases) and apoptosis (bcl-2, bcl-x<sub>L</sub> and bax). To carry out this assay, cells are treated with the test compound, lysed, the proteins isolated, and then resolved on SDS-PAGE gels and the gel-bound proteins transferred to nitrocellulose membranes. The membranes are first probed with the primary antibodies (e.g., antibodies to p21, p27, bax, bcl-2 and bcl-x<sub>l</sub>, etc.) and then detected with diluted horseradish peroxidase conjugated secondary antibodies, and the membrane exposed to ECL detection reagent followed by visualization on ECL-photographic film. Through analysis of the relative proportion of the proteins, estimates may be made regarding the percent of cells in a given stage,

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# VI. Examples

for example, the G0/G1 phase, S phase or G2/M phase.

The following examples are included to demonstrate preferred embodiments of the invention. It should be appreciated by those of skill in the art that the techniques disclosed in the examples which follow represent techniques discovered by the inventor to function well in the practice of the invention, and thus can be considered to constitute preferred modes for its practice. However, those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments which are disclosed and still obtain a like or similar result without departing from the spirit and scope of the invention.

# **EXAMPLE 1**

# Inhibition of Antibiotic Resistant Bacteria With Ectophosphatase Inhibitors

### A. Summary of Protocol and Results

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The purpose of this study was to evaluate various ectophosphatase inhibitor compounds for any potentiating effect or resistance reversal with methicillin resistant *Staphylococcus aureus* (MRSA). Two strains of *Staphylococcus aureus* were obtained from the American Type Culture Collection (ATCC). Those obtained were a previously characterized methicillin resistant strain (# 43300) and a previously characterized methicillin sensitive strain (# 29213) to serve as a control. Strains were received as lyophilized pellets and were rehydrated according to the ATCC Product Information Sheet using Trypticase Soy Broth.

Mueller-Hinton agar plates were prepared containing 1 of 6 inhibitor compounds investigated. The compounds were dissolved in DMSO at concentrations of 20 mg/ml. 25  $\mu$ l of this stock solution was added to 25 mls of media just prior to cooling to solidification to produce plates containing 20  $\mu$ g/ml of inhibitor compound. Control plates containing 25  $\mu$ l DMSO only were also prepared in the same fashion.

For each of the two strains, 5 isolated colonies were picked from overnight culture plates and used to inoculate a 0.85% NaCl solution. The turbidity of each culture was adjusted using 0.85% NaCl until the turbidity of each matched a 0.5 McFarland turbidity standard. Each strain was swabbed onto control plates. The MRSA strain was swabbed also onto the inhibitor plates. Plates were allowed to dry for 5 minutes. A disk containing 5  $\mu$ g of methicillin (obtained for the purpose of susceptibility testing from Bioanalyse Co., Ltd.) was placed onto the surface of all plates. Plates were incubated at  $37^{\circ}$ C.

Plates were read after 24 hours. It was noticed at this time that one plate, containing inhibitor compound NGXT1914 (Formula XV), was clear--there was no bacterial growth at all. All other plates had confluent growth except at the zone of inhibition of the methicillin disk.

Protocols for the studies were according to NCCLS guidelines (M2-A7, M100-S11) for antimicrobial susceptibility testing. Methodology for the serum bactericidal test was according to (Tentative Guideline) NCCLS M21-T, 1992. Methods for determining bactericidal activity of antimicrobial agents was according to (Tentative Guideline) NCCLS M26-T.1992. Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically. 3rd ed. NCCLS

M7-A3.1993. Protocols for evaluating dehydrated Mueller-Hinton agar were according to NCCLS M6-A, 1996. Performance standards for antimicrobial susceptibility testing were according to NCCLS M100-S8, 1998. The screening test for Oxacillin-resistant Staphylococci was according to NCCLS M7-A4. Performance standards for antimicrobial disk and dilution susceptibility tests for bacteria isolated from animals was according to (Approved Standard) NCCLS M31-A. Performance standards for antimicrobial susceptibility testing were according to NCCLS M100-S8.1998. Screening test for Oxacillin-resistant Staphylococci was according to NCCLS M7-A4 Susceptibility test panels.

# B. Confirmation of results

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In order to ascertain whether the result with inhibitor NGXT1914 was artifactual, both MRSA and MSSA were tested on Mueller-Hinton agar plates containing varying concentrations of NGXT1914. First, plates were prepared as above with the following concentrations of inhibitor compound: 0 µg/ml (DMSO controls), 1 µg/ml, 5 µg/ml, 10 µg/ml, and 25 µg/ml. Inhibitor concentrations were prepared such that all plates contained 25 µl total DMSO. For each of the two strains, 5 isolated colonies were picked from fresh overnight culture plates and used to inoculate a 0.85% NaCl solution. The turbidity of each culture was adjusted using 0.85% NaCl until the turbidity of each matched a 0.5 McFarland turbidity standard. Both strains were each swabbed onto both control and inhibitor plates. Plates were allowed to dry for 5 minutes and were placed into the incubator. Plates were read after 24 hours (12/7/01). The results were as follows:

Concentration (µg/ml NGXT1914)	Result
25 μg/ml	No growth at all for either strain
10 μg/ml	No growth at all for MRSA strain. Some small isolated colonies on the MSSA plate.
5 μg/ml	Only a few small colonies on the MRSA plate. Confluent growth on the MSSA plate.
1 μg/ml	Confluent growth on both plates.
Controls	Confluent growth on both plates.

### C. Conclusions

Inhibitor NGXT 1914 inhibits growth of both resistant and sensitive *Staph* strains, however it is more effective against the methicillin resistant strain. This compound was tested with other cell types (mammalian cell lines, plants (*Arabidopsis thaliana*) yeast, *Pseudomonas aeruginosa*) and has not inhibited growth of any cell line or organism at the concentrations tested. Since NGXT1914 is an ectophosphatase inhibitor, it is possible that *Staph*, particularly the MRSA, is dependent on a phosphatase that is an ideal substrate for NGXT1914. The results obtained indicated that NGXT1914 was more effective against MRSA versus MSSA than previously identified compounds.

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#### **EXAMPLE 2**

# Inhibition of Chemotherapy-Resistant Tumor Cells With An Ectophosphatase Inhibitor

In order to determine the effect of ectophosphatase inhibitors on tumor cells resistant to a chemotherapeutic agent, 2 breast cancer tumor cell lines were tested, a vinblastine resistant line (SW-13Vb003) and its vinblastine sensitive parent line, SW-13. A standard 4 day incubation at 37 °C and 5 % CO<sub>2</sub> was used. IC<sub>50</sub> tests (MTT) were done using standard methodology in 96 well plate format with inhibitor concentrations ranging from 0-90  $\mu$ g/ml (DMEM media). Results showed that 3 of the inhibitor compounds tested, NGXT194 (Formula VI), NGXT196 (Formula VIII), and NGXT1915 (Formula X), produced lower IC<sub>50</sub> values with the resistant cell line than with the sensitive line. For NGXT194, SW-13 was sensitive at 20  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 10  $\mu$ g/ml. For NGXT196, SW-13 was sensitive at 30  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 10  $\mu$ g/ml. For NGXT1915, SW-13 was sensitive at 20  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 20  $\mu$ g/ml.

Based on the inventors previous findings concerning the role of ectophosphatases in drug resistance, it seems likely that many resistant cells have upregulated phosphatases and that inhibiting a phosphatase critical to maintaining these cells could result in cell death. One hypothesis is that once these phosphatase enzymes are upregulated or are used in drug resistance their function becomes one that is vital to the cell. Since this phenomenon has been seen now in

a bacterial resistance model it might be expected that the ectophosphatase inhibiting compounds could preferentially kill other types of resistant cells or act as biocides to certain cells.

### **EXAMPLE 3**

# Over-Expression of Ectophosphatase Does Not Increase the Cellular Uptake of Adenosine

### A. Materials and Methods

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Transgenic Plant Construction: psNTP9 (Pisum Sativum apyrase, GenBank accession #Z32743) was subcloned as a Sall to Xbal fragment into pKYLX71 (Schardl et al, 1987, supra.). This plasmid was transformed into A. tumefaciens GV3101 [pMP90] pKYLX71 (Koncz and Shell, 1986), which was used to infect root call from Ws ecotype Arabidopsis thaliana under kanamycin selection (Valvekens et al., 1992). Four individual lines, obtained from separate calli, were propagated to the third generation (T3).

Subcellular Apyrase Distribution in Pea: Etiolated pea plumules served as the tissue source for nuclei and cytoplasm isolation as described by Chen and Roux (Plant Physiol. 81:609-612 (1986)). Plasma membrane was prepared from 30 g of pea root tissue (Zhu Mei Jun and Chen Jia; 1995, Acta Botanica Sinica 37:942-949). Western analysis was performed on 15-30 pg of protein from cytoplasm, plasma membrane and nuclei using a polyclonal anti-apyrase antibody raised against the purified pea protein (Tong et al., 1993). To determine the orientation of the pea apyrase in the pea plasma membrane, outside-out vesicles were prepared and the accessibility of the enzyme was determined by selective trypsin proteolysis, or membrane shaving, followed by activity assays and western blotting.

Phosphate uptake experiments and growth assays: In all experiments the growth media did not contain sugar, and plants were grown in sterile culture at 22°C under 150-200 pE of continuous light. Unless otherwise noted, a standard 0.8% agar medium (Becton Dickenson, Cockeysville, Md.) containing 100  $\mu$ M phosphate was used for uptake assays (Somerville *et al.*, 1982). Plants used for the phosphate uptake experiments were grown singly in 1 ml of the standard agar medium for 15 days prior to the experiment. On the day of the experiment,  $10 \,\mu$ Ci<sup>32</sup>p was applied to the side of the culture dish and allowed to diffuse through the agar. The lids of 95 mm x 15 mm tissue' culture dishes (Fisher, Pittsburgh, Pa.) were removed to facilitate transpiration.

After 18 hours, the plants were removed from the medium. The aerial portions of the plant not in contact with the agar were weighed and counted by liquid scintillation. For each plant the entire root system was carefully pulled from the agar and washed in ice cold water prior to scintillation counting. To measure the transport of the products of ATP hydrolysis by the transgenic plants overexpressing apyrase and by wild-type plants,  $[2,8^3H]ATP$ ,  $[\alpha^{32}P]ATP$ , and  $[\gamma^{32}P]ATP$  (Amersham) were fed to 15-day-old plants in separate treatments. All treatments were analyzed for significance in a T-test (n>4-6 for all groups, \*P<0.05, error bars = s.e.m.).

### B. Results

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Detection of the pea apyrase in nuclei and in purified plasma membrane: By immunoblot assay, the pea apyrase was found to be associated with nuclei and with purified plasma membranes but not with the cytoplasm (FIG. 1A). The contents of the lanes in FIG. 1A are as follows: Lane 1, cytoplasm; Lane 2, purified plasma membrane; Lane 3, purified nuclei; and Lane 4, pre-immune control of nuclei. Protease treatment destroyed both apyrase activity and antigenicity in outside-out plasma membrane vesicles. After trypsin treatment, the exterior face of the vesicle showed 30% of the ectophosphatase activity of the untreated sample. Endophosphatase activities were retained after trypsin treatment, indicating that the digest occurred exclusively on the exterior face of the membrane. These data indicated that the ectoapyrase was in fact being expressed in the extracellular matrix (ECM).

Enhanced Growth of Plants Over-Expressing Apyrase: Three of the four transgenic plant lines constitutively expressed psNTP9 under the control of the cauliflower mosaic virus 35S promoter and over an 18 hour period showed two to five times as much phosphate accumulation in shoots as wild type (FIG. 1B); Top, the total phosphate accumulated in the shoots of three independent transformants in an 18 hour 32p uptake assay at 2 mM phosphate; Bottom, a corresponding immunoblot performed on equal amounts of protein isolated from the ECM of three week-old wild-type Arabidopsis thaliana and the psNTP9 transgenics. Apyrase expressing plants also showed four times as much phosphatase activity in the extracellular matrix as the wild-type (FIG. 1 C). (Note, OE 1 in the FIG. stands for over-expression 1 transgenic line).

Transgenic plants preferentially transport the gamma phosphate of ATP: In order to address whether over-expression of ectoapyrase was stimulating the adenosine salvage pathway, the intracellular uptake of adenosine was measured both in the presence and absence of the overexpression of apyrase. The inability of apyrase to translocate either extracellular AMP or

adenosine was demonstrated by the low level of radiolabel accumulated in the transgenic plants fed [2,8³H]ATP and [a³²p]ATP (FIG. 2). The complete dephosphorylation of [2,8³H]ATP would result in a radiolabelled adenosine molecule while the complete dephosphorylation of [a³²p]ATP would result in a non-labeled adenosine label. FIG. 2A illustrates that plants overexpressing apyrase did not translocate radiolabelled adenosine (or byproducts of the dephosphorylation of [2,8³H]ATP) any more efficiently than plants not overexpressing apyrase (wild-type plants). FIG. 2B illustrates that plants overexpressing apyrase did not translocate AMP (or the byproducts of the dephosphorylated [a³²p]ATP) any more efficiently than wildtype plants. In comparison, feeding experiments where the y phosphate was labeled, the transgenics accumulated three times the amount of labeled phosphate as the wild-type (FIG. 2C). These data show that the over-expression of apyrase does not induce an increase in the uptake of adenosine and therefore its over-expression does not act to stimulate the adenosine salvage pathway.

### **EXAMPLE 4**

# EctoPhosphatase is Involved in Drug Resistance in Yeast and Plants

### A. Materials and Methods

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Expression of AtPGP-1 in yeast: The AtPGP-1 cDNA (Arabidopsis thaliana MDR gene, accession #X61370) was subcloned into pVT101 downstream of the ADH promoter to create the AtPGP-1/pVT101 construct. AtPGP-1/pVT101 and pVT101 were transformed into Saccharomyces cerevisiae INVSCI (genotype: MATa, his3-Δl, leu2, trpl-289, ura3-52) and YMR4 (genotype: MATαhis3-11,15, leu2-3, 112ura3Δ5, can Res pho5, 3: ura3Δ1) by a PEG lithium acetate procedure (Eble, 1992) and selected on uracil dropout medium.

Yeast Growth: Yeast were grown at 30°C under conditions of constant selection for uracil auxotrophy. YNB (Bio101, Vista, CA) supplemented with CSM (uracil dropout) and 2% glucose was used to grow strains having pVT101 constructs. Cycloheximide (Sigma Chemical, St. Louis, MO.) was added to liquid media or spread on solid media to achieve a final concentration of 500 ng/ml. Nigencm (Sigma Chemical, St. Louis, MO.) was added to liquid media or spread on solid media to achieve a final concentration of 25 μg/ml. Yeast strains used in cycloheximide selection assays were always propagated in the presence of the cycloheximide on plates and then streaked onto new plates containing drug or no drug, such that induced

resistance existed in each strain at the time of the start of the assay. For selection assays on plates, single colonies were streaked; for selection in liquid media 0.01 ml of saturated culture was added to fresh media containing the drug. The plates shown in figures were grown for 3-5 days before photographs were taken. Yeast selection assays in liquid media were quantitated by turbidity as measured by absorbance at  $OD_{600}$ .

Expression of apyrase and AtPGP-1 in plants: The expression of apyrase in plants is as described above in Example 3. Similar methods were employed to express AtPGP-1 in Arabidopsis thaliana plants with the following modifications. The AtPGP-1 coding region was subcloned into a pBIN vector lacking the GUS gene as described in Sidler et al. (1998). This plasmid was then transformed into A. tumefaciens as described above, which was used to infect root calli to produce transgenic plants expressing AtPGP-1.

<u>Plant growth</u>: Arabidopsis thaliana seeds were sown in a solid germination media containing MS salt, 2% sucrose, 0.8% agar, and vitamins (Valvekens et al., 1992). For selection assays, cycloheximide was spread on the media to achieve a final concentration of 250 ng/ml. Plant growth was measured by germination percentage after 6-30 days.

### B. Results

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Effect of over-expression of AtPGP-1 in yeast: When a yeast mutant, YNIR4, which is deficient in two major extracellular phosphatases and tends to accumulate ATP extracellularly, was grown in a potent cellular toxin, cycloheximide, it did not grow whereas a wild-type yeast strain, INVSCI, did grow in the presence of cycloheximide (FIG. 3A). Surprisingly, expression of the plant multidrug resistance (MDR) gene, AtPGP-1, enabled the yeast mutant to grow in the toxin (FIG. 3B and FIG. 5A). The presence of AtPGP-1 in the wild-type yeast did not have any effect when grown in the presence of cycloheximide (FIG. 3B). The same result was obtained when the yeast strains were cultured in nigericin (FIG. 3C, 3D, FIG. 5B, 5C). In FIG. 3C and 3D, starting from the top of the dish clockwise, the cells are as follows: INVSCI (wild-type) overexpressing AtPGP-1, YNM4 containing the vector alone, YMR4 overexpressing AtPGP-1, and INVSCI containing the vector alone. When grown without drug, all the cells grow (FIG. 3C). However, when grown in drug, only the YMR4 containing vector alone shows reduced growth. The survival of the AtPGP-1 transformed strains was due to the ability of the NIDR1 channel to efflux the toxin, hence lowering the actual cellular concentration of the poison cycloheximide. The sensitivity of the untransformed mutant to the drug is likely due to a loss of

the ATP gradient below a point at which endogenous transporters, similar to AtPGP-1 can function.

Effect of over-expression of AtPGP-1 in plants: The over-expression of AtPGP-1 was able to confer resistance to cycloheximide in plants (FIG. 4A and 6) and to the cytokinin, N<sub>6</sub>-(2isopentenyl) adenine (21P) (FIG. 4B). These results had not been observed previously and in fact, the prior art actually teaches away from this finding suggesting that over-expression of plant AtPGP-1 is not involved in drug resistance (Sidler. et al., 1998). Therefore, this result was particularly unexpected in plants. Additionally, since Arabidopsis plants overexpressing AtPGP-1 are able to grow in both cycloheximide and cytokinin, this suggests that the conference of drug resistance by AtPGP-1 is likely to be seen with other chemicals as well and is not an isolated phenomenon.

Effect of over-expression of apyrase on drug resistance in plants: Another unexpected result was obtained when the plant apyrase gene was over-expressed in plants. Over-expression of apyrase in plants resulted in the conference of resistance to cycloheximide (FIG. 4A and 6). The same result was obtained when the plants were grown in the presence of a cytokinin, N<sub>6</sub>-(2isopentenyl) adenine (FIG. 4B). In fact, over-expression of apyrase is surprisingly able to raise the germination rate above the level obtained by the over-expression of the MDR gene AtPGP-1 (FIG. 4A, 4B and 6). Just as under-expression of phosphatase activity in a yeast mutant lacking two potent extracellular phosphatases diminished its resistance to cycloheximide (FIG. 3A), over-expression of a powerful extracellular ATP phosphatase in plants bolstered resistance. The fact that higher resistance was found in plants genetically manipulated only with respect to phosphatase over-expression and not MDR1, indicates that there likely exists other ATP-symporters used in detoxification in addition to MDR1. Minimally, the stronger ATP gradient set up by apyrase in the transgenic plants affects the kinetics of the wild-type MDRI.

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#### **EXAMPLE 5**

### ATP Efflux in Yeast and Plants Overexpressing AtPGP-1

### A. Materials and Methods

ATP collection: Yeast cells used in the luciferase assays were grown for two days and then transferred to Lsh media at the time of the assay. From this time forward, the cells were kept at room temperature on a rotator. Every hour a 1 ml aliquot was taken, the cells in the

aliquot were counted on a hemocytometer, a methylene blue viability assay was performed (Boyum and Guidotti, 1997), the cells were centrifuged, and the supernatant was stored in liquid nitrogen until all the aliquots were collected. For luciferase assays involving plants, *Arabidopsis thaliana* plants were grown in sterile culture at 22°C under 150-200 pE of continuous light for at least 15 days. Foliar ATP was collected by placing a single 30 pl drop of luciferase buffer (Analytical Luminescence Laboratory, Cockeysville, Md.) on a leaf and, without making direct physical contact with the plant, the droplet was immediately collected and snap frozen. For each leaf, the area was approximated as an integrated area of a 2-D image of the leaf using NIH 1.52 software (Shareware, NIH).

Luminometry: Samples were reconstituted to a 100 pl final volume in FirelightTM buffer (Analytical Luminescence Laboratory, Cockeysville, MD). After the buffer was added, all samples were kept on ice. ATP standards were reconstituted in 100 µl of FirelightTM buffer and the standards and sample were loaded into a 96-well plate and read on an automated Dynex Technologies Model MLX luminometer (Dynex Technologies, Chantilly, Va.). Samples were processed with the addition of 50 µl of FirelightTM enzyme (Analytical Luminescence Laboratory, Cockeysville, MD) followed by a reading delay of 1.0 second and an integration time of 10 seconds. Output was taken as an average for the integration time and then averaged for multiple samples. The sample handling time was less than 2 hours.

Pulse Chase experiments: Yeast were grown to saturation in liquid medium, as described above, centrifuged, and resuspended in fresh medium containing 1  $\mu$ Ci/ml <sup>3</sup>H-adenosine (Amersham, Arlington Heights, II.). The cells were rotated at room temperature for 20 minutes to allow adenosine uptake. After 20 minutes the cells were centrifuged. The pellet was washed twice in ice cold medium, resuspended in culture medium at room temperature, divided equally between five types (five per cell line), and placed on a rotator. Every ten minutes a separate tube from each cell line was centrifuged and the pellet and supernatant were placed in separate scintillation vials. The efflux activity was expressed as the ratio of counts in the supernatant to counts in the pellet.

### B. Results

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The ATP effluxed by the plant MDR1, AtPGP-1, over-expressed in yeast: In wild-type cells there is a steady-state level of ATP in the extracellular fluid, which is to say that the ATP outside the cells is rapidly degraded by phosphatases and does not accumulate over time (FIG.

7). However, the expression of the AtPGP-1 doubled this steady-state level (FIG. 8). If the yeast mutant, YMR4, which is deficient in extracellular phosphatase activity, is analyzed, there was a noticeable accumulation of ATP in the extracellular fluid compared to a control mutant transformed with empty plasmid pVT101 (FIG. 9). In addition to ATP measurements based on luminometry performed on a kinetic time-scale of hours, an earlier differential ATP efflux in MDRI expressing cells by pulse chase experiments was demonstrated (FIG. 10). Furthermore, Arabidopsis thaliana plants from two independently transformed lines, that constitutively express the AtPGP-1 protein, showed a significant accumulation of ATP on their leaf surfaces (FIG. 11). Taken together, these data demonstrate the absolute ability of plant MDRI, AtPGP1, to transport ATP from inside the cell to the outside. Moreover, these data show that ATP efflux channels and phosphatases both have roles in the steady-state level of ATP outside of the cell. This is the first demonstration of the importance of extracellular ATP steady-state levels, and the importance of an ATP gradient across biological membranes in the modulation of drug resistance.

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### **EXAMPLE 6**

# A Two-Component System is Found in Arabidopsis Plants

### A. Materials and Methods

Plant Growth: \_Arabidopsis seeds were sown in a solid germination media containing MS salts (Sigma Chemical, St. Louis, Mo.), 2% sucrose, 0.8% agar, and vitamins (Valvekens et al., 1992). For selection assays, one of the following, or a combination of both, was added to media (cooled to less than 50°C before adding) immediately prior to pouring into plates: cycloheximide at a final concentration of 500 ng/ml;α,β-methyleneadenosine 5'-diphosphate at a final concentration of 1mM. Plant growth was measured by germination percentage after 10-20 days.

All other materials and methods were discussed above in Example 4.

### B. Results

Effects of phosphatase inhibitor on plants overexpressing AtPGP-1: FIG. 12 shows that when wild-type and AtPGP-1 overexpressing (MDR OE) Arabidopsis thaliana plants were either treated with nothing (lane 1), cycloheximide (lane 2), a,(3-methyleneadenosine 5'-diphosphate (phosphatase inhibitor) (lane 3), or cycloheximide and phosphatase inhibitor (lane 4), both the wild-type and the AtPGP-1 overexpressing plants were affected similarly by the presence of

phosphatase inhibitor. While the AtPGP-1 overexpressing plants grew significantly better in the presence of cycloheximide alone with a 50% germination rate for the AtPGP-1 overexpressing plants and a 2% germination rate for the wild-type plants, similar germination rates were seen for both the AtPGP-1 overexpressing and wild-type plants in the presence of either phosphatase inhibitor alone (83% and 90% germination respectively) or cycloheximide plus phosphatase inhibitor (no germination at all). The addition of phosphatase inhibitor surprisingly destroys the ability of the AtPGP-expressing plants to grow in the presence of cycloheximide. These data suggest that phosphatases are involved in the conference of drug resistance in plants and that there is a two-component system similar to that demonstrated in yeast in Example 4 and 5 above in which an MDR-like protein and an ATP-gradient-maintaining ectophosphatase are important in modulating drug resistance.

#### **EXAMPLE 7**

# The ATP Gradient Directly Effects Drug Resistance in Cells

### A. Materials and Methods

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Cell lines: Cell lines were the same as those described above in Example 4 and 5. YMR4 MDRI is the phosphatase mutant yeast strain overexpressing AtPGP-1; YMR4 pVT101 contains vector alone; INVSC MDRI is the wild-type yeast strain overexpressing AtPGP-1; and INVSC pVT101 contains vector alone.

Selection in drug: To create drug resistant yeast strains, all four cell lines were grown up in the presence of 500 ng/ml of cycloheximide, and transferred to other cycloheximide containing plates after a period of four to six days. This transfer of cell lines and subculturing continued such that the yeast cells grew in the presence of cycloheximide for a period of at least a month. Cells cultured in media alone: To create cell lines that had not been preselected for their ability to grow in drug, yeast strains were grown on plates containing YNB (Bio101, Vista, CA) without uracil (-URA) to maintain the presence of the vector (which supplies URA) without any drugs added.

Growth of cells in suspension for ATP and drug selection experiments: Cells were transferred into 5 ml YNB -URA liquid media for turbidity measurements. All cell lines (both non-drug selected and drug-selected) were grown in media with the addition of either nothing, 500 ng/ml cycloheximide, 100 mM ATP, or 500 ng/ml cycloheximide and 100 mM ATP. Turbidity readings were taken after 48 hours.

Growth of cell lines in suspension for salvage pathway experiments: All cell lines were grown in liquid media either containing drug (for the drug selected lines) or not containing drug (for the non-drug selected lines). When the cultures reached a turbidity of 1.00 as measured at a wavelength of 600 in a spectrophotometer ( $OD_{600} = 1.00$ ), 10  $\mu$ l of each culture was then removed and placed in either media with nothing added, 3 mM potassium phosphate; 3 mM adenosine; 9 mM potassium phosphate and 3 mM adenosine (for controls); potassium phosphate and cycloheximide; adenosine and cycloheximide; adenosine, cycloheximide, and potassium phosphate. Cell cultures were further grown for 72 hours, and their turbidity was determined by  $OD_{600}$  readings on a spectrophotometer.

Growth of cell lines for nigericin experiments: Drug selected lines were removed from cycloheximide containing plates and placed in 5 ml liquid media containing 5 mg/ml cycloheximide. Cell cultures were allowed to grow until they reached an OD<sub>600</sub> reading of 1.00, and then 10 μl from each culture was removed and transferred to culture tubes containing 5 ml of liquid media and 25 pg/ml nigericin. OD600 readings were recorded daily for a period of up to 72 hours to determine growth.

### B. Results

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An ATP gradient is critical in MDR: The importance of the ATP gradient in MDR in yeast cells was demonstrated by showing that the growth of cells which were previously grown in drug and had developed resistance to the drug, were not able to grow in high levels of ATP unless they were overexpressing AtPGP-1 (FIG. 13). Cells which had not been previously selected in drug were able to grow in the presence of high levels of ATP (FIG. 13). These data emphasize that the loss of an ATP gradient is previously resistant cell lines abolishes resistance. This result is new to the understanding of MDR and has led to vast insight into the understanding of the mechanism by which MDR-ABC transporters confer resistance to cells and to methods to modulate such resistance. Moreover, when cells were grown in high levels of ATP and drug (cycloheximide), even the cell lines which had previously showed resistance to drug were unable to grow in the presence of drug and ATP. These data indicate that when the ATP gradient across biological membranes is destroyed (by the presence of high extracellular levels of ATP), efflux a of drugs cannot be achieved and therefore, drug resistance is abolished. In summary, the multidrug resistance channel is not functional without an ATP gradient.

The drug resistance is not due to an adenosine salvage pathway: In order to address whether the involvement of a nucleotide salvage pathway was responsible for the results of the present invention, yeast cells were cultured in the presence of extracellular adenosine and extracellular phosphate. The acid phosphatase yeast mutant, YMR4, was selected because its decreased ectophosphatase activity makes it an ideal candidate for studying the effect of extracellular nucleotides on growth. If an adenosine salvage pathway were involved, then the presence of extracellular adenosine or possibly phosphate should help cells recoup the intracellular ATP losses due to ATP/drug efflux and should help cells grow in the presence of drug whether or not the cells were overexpressing AtPGP-1. In contrast, however, the addition of adenosine or phosphate to the media did not enhance resistance to the cells (FIG. 14). In fact, cells overexpressing AtPGP-1 grew best in drug alone, with the addition of adenosine and/or phosphate being slightly inhibitory. Furthermore, cells which did not express AtPGP-1 were unable to grow in drug regardless of the presence of adenosine and/or phosphate. These data suggest that an adenosine salvage pathway is not the principal mechanism at work in the present invention.

#### **EXAMPLE 8**

# High Throughput Screen for Isolating Apyrase Inhibitors

### A. Materials and Methods

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Small Molecule Library: A small molecule library (DIVERSet format F), which was specifically constructed to maximize structural diversity in a relatively small library (9600 compounds), was obtained from ChemBridge Corporation (San Diego, CA). The small molecules (supplied in 0.1 mg dehydrated aliquots) were dissolved in DMSO, transferred to a 96 well plate, and tested for their ability to inhibit apyrase activity.

The assay: A stringent screen to test the ability of small molecules to disrupt the ATPase activity of the apyrase enzyme was developed based on phosphate-mobylate complexation. The assay was a modification of a phospholipase assay developed by Hergenrother *et al.* (1997): Under normal conditions, the apyrase enzyme liberates phosphate from ATP present in the reaction. The liberated phosphate quickly forms a complex upon addition of a small amount of acidified molybdate and ascorbate allowing for the production of a very dark blue color (the less phosphate liberated, the less blue color). Control reactions were performed with heat inactivated apyrase enzyme. Color intensity was detected on an Alpha Imager 2000 with AlphaEaseTM

software (Alpha Innotech, San Leandro, CA). Color changes were also evident by the naked eye. A Biomek 2000 robot (Beckman, Fullerton, CA) was used for screening the 9600 samples.

To each well of the 96 well plates containing a small molecule from the library, 100 pI of reaction buffer (60 mM HEPES, 3 MM MgC1<sub>2</sub>, 3 mM CaCl<sub>2</sub>, 3 mM ATP pH 7.0) was added. The apyrase (potato apyrase grade VI, Sigma Chemical, St. Louis, MO) enzyme (0.1 units) was added in a 5 pI volume and the reaction was allowed to proceed at room temperature for 60 minutes.

Three buffers were used to visualize activity: Buffer A: 2% Ammonium molybdate in water Buffer B: 1 I% Ascorbic acid in 37.5% aqueous TCA. Buffer C: 2% trisodium citrate, 2% acetic acid.

Immediately before developing the assay, buffers A and B were mixed in a 1:1 \_5 ratio. 50 pl of A:B was added to each well. The 96 well plate was then vibrated on a table surface to mix the solution. The deep blue color developed after approximately 2 minutes. After 2 minutes, 50 p.l of buffer C was added to each well and the blue color became darker, increasing the sensitivity of the assay. The color intensified for up to one hour with no accompanying color change in the control wells containing heat inactivated apyrase enzyme. The color intensity for a single plate was measured on an Alpha Imager 2000 with AlphaEaseTM software (Alpha Imotech, San Leandro, CA).

### B. Results:

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Nineteen positives were identified from the 9600 compound DIVERSet library. Dose response assays revealed that fourteen showed weak inhibition, two showed medium inhibition (Formulas N and V), and three showed relatively strong inhibition (Formulas I, II and III).

\* \* \*

All of the compositions and methods disclosed and claimed herein can be made and executed without undue experimentation in light of the present disclosure. While the compositions and methods of this invention have been described in terms of preferred embodiments, it will be apparent to those of skill in the art that variations may be applied to the compositions and methods and in the steps or in the sequence of steps of the method described

herein without departing from the concept, spirit and scope of the invention. More specifically, it will be apparent that certain agents which are both chemically and physiologically related may be substituted for the agents described herein while the same or similar results would be achieved. All such similar substitutes and modifications apparent to those skilled in the art are deemed to be within the spirit, scope and concept of the invention as defined by the appended claims.

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The following references, to the extent that they provide exemplary procedural or other details supplementary to those set forth herein, are specifically incorporated herein by reference.

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